JAMECO®
ELECTRONICS

21ST CENTURY ENGINEERING

FEATURED PRODUCTS

Customizable Multi-Function Capacitive Touchscreen Graphic Displays

LASCAR electronics

PanelPilotACE is a software and hardware platform that makes development of industrial user-interfaces a simple matter of dragging and dropping elements on a screen. The design software provides a number of building blocks that allow users to quickly add elements to their project. From background images to text elements, analog style meters, touch-screen navigation elements and even complex logic statements, users can build up multi-screen interfaces without needing to write a line of code. The SGD 43-A is the first in a range of PanelPilotACE compatible displays. The low-profile display features a 4.3" capacitive touch-screen powered by a Freescale ARM 9 processor running Linux. The display is powered by a 5V to 30V DC supply and offers users a wealth of connections.

- Eight digital input/output pins
- Two alarm outputs (max current sink 10mA)
- RS232 serial interface
- Connection: screw terminal and DIL
- Measurement range: 0-40VDC; 4-20mA
- Supply volatage: 4-30VDC
- User interface: USB
- Four 16-bit bipolar analog inputs (scalable in software to ±40V)
- I²C, SPI, RS-485 and Ethernet support

★ **Web Code: PNP**

NEW MARKED IN PINK

Part No.	Mfr. Part No.	Description	Module Size (in.)	Price
2219305	SGD 43-A	Multi-function 4.3" color TFT display	4.7 x 3.1 x 0.8	$274.95
2219313	SGD 43-A-DK+	Development kit, including display	7.1 x 5.8 x 2.5	499.95

Open-Source Single-Board Computers

beagleboard.org   **minnowboard.org**

Like to develop programs, but think they're too expensive? These open source hardware boards are low-cost, fan-less computers that you can use to create your own projects. The development community is very active and completely open-source, so you can contribute or ask for assistance. Get started with these boards and say hello world in your own way!

NEW MARKED IN PINK

2217271   **2207970**

Part No.	Mfr. Part No.	Description	Size (in.)	Price
2217271	999-0004910	64-bit Intel® ATOM™ E3825 series SoC dual-core, 1.33GHz processor, 2GB DDR3, Intel HD graphics, HDMI port for video and audio, USB2.0/3.0, 5V I/O expansion headers. Runs Debian GNU/Linux, Windows 8.1, Android 4.4 & Yocto projects	2.9 x 3.9	$139.95
2207970	BB-BBLK-000	BeagleBone Black Revision C with Debian OS, Sitara AM335X Cortex-A8ARM® 1GHz processor, USB2.0, 512MB DDR3L, microHDMI port, on-board 4GB flash, 3D accelerator, serial interface header	3.4 x 2.1	54.95

Portable Logic Analyzers

saleae

Interested in a portable and easy way to monitor signals? As one of the world's best logic analyzers, you can save time and money with this test equipment that is simple to use with accurate and insightful information that you need.

- Records continuously, limited only by PC RAM, uses PC screen for output display
- Each input can be read as digital, analog, or both at the same time
- Logic software works on Windows, Mac, or Linux OSs
- Three-year warranty
- Decoding protocols and debugging microcontroller peripherals are some of the top reasons to get a Logic

NEW MARKED IN PINK

2217140   **2217123**

Part No.	Mfr. Part No.	Digital Sample Rate	Logic Level	Analog Sample Rate (max.)	# of Bits	Input Voltage	Size (L" x W" x H")	Price
2217140	Logic 4	12MS/s	2.5V – 5.5V	6MS/s	8	0V to 5V	1.66 x 1.66 x 0.39	$99.95
2217131	Logic 8*	100MS/s	1.8V – 5.5V	10MS/s	10	0V to 5V	2.1 x 2.1 x 0.46	199.95
2217123	Logic Pro 8*	500MS/s	1.2V – 5.5V	50MS/s	12	-10V to 10V	2.1 x 2.1 x 0.46	399.95
2217115	Logic Pro 16*	500MS/s	1.2V – 5.5V	50MS/s	12	-10V to 10V	3.6 x 3.6 x 0.59	499.95

*The maximum sample rate and bandwidth depends on the number and type of channels used

MakerBot® Replicator® Desktop 3D Printers

MakerBot

Visit www.Jameco.com/3DZone for all 3D printers and products

Unleash your creativity with these easy to use 3D printers. Print objects using PLA filament to craft your wildest designs.

- Printed technology: Fused Deposition Modeling
- Connected by USB, WiFi or Ethernet (depending on model)
- Operates on Windows (7+), Mac(10.7+), and Linux(Ubuntu)
- Uses 1.75mm filament
- Supports STL, OBJ, THING and MAKERBOT files
- Ambient operating temperature: 60°F – 90°F

★ **Web Code: TDP**

NEW MARKED IN PINK

2214387   **2214395**   **2214416**   **2214424**   **2214432**

2214441

2214459

Part No.	Mfr. Part No.	Description	Build Vol. (L" x W" x H")	Size (L" x W" x H")	Wt. (lbs.)	Price
2214387	MP05925	MakerBot Replicator mini (5th generation)	3.9 x 3.9 x 4.9	11.6 x 12.2 x 15.0	18	$1,375.00
2214395	MP05927	MakerBot Replicator 2X (4th gen.) – dual extruder	9.8 x 6.3 x 5.9	19.1 x 12.8 x 20.9	27.8	2,499.00
2214416	MP05825	MakerBot Replicator (5th generation)	9.9 x 7.8 x 5.9	20.8 x 17.4 x 16.2	35	2,899.00
2214424	MP05950	MakerBot Replicator Z18 (5th generation)	12 x 12 x 18	19.4 x 22.2 x 32.6	90	6,499.00
2214432	MP03955	MakerBot digitizer – desktop 3D scanner	8"Dia. x 8"H	18.7 x 8.0 x 16.2	4.7	799.00
2214441	MP05823	Black PLA filament (small spool)	—	5.9 x 1.6 (D" x W")	0.5	18.49
2214459	MP05790	White PLA filament (small spool)	—	5.9 x 1.6 (D" x W")	0.5	18.49

Transcontinental Airway Systems

Engineering design is about solving problems and historically the best designs are also the simplest. While today we have radar, GPS and satellite tracking systems to manage transcontinental flight, in the early 1920s as air travel was just "taking off" navigation was facilitated by lights and big cement arrows.

In 1923 the US congress funded the transcontinental airway system largely to facilitate mail delivery. They create a series of land based beacons spaced ten miles apart (and closer in the mountains) with both rotating lights and in some cases ground based landmarks (arrows) to help guide the way. The one million candlepower beacons were visible up to 40 miles away in clear weather. When first designed, the system had about 1500 beacons that stretched from New York to San Francisco.

Today the phrase "air mail" is still used and Jameco does its best to use both air and ground transportation to speed electronics to its customers. While the transcontinental airway system only lived about 10 years (before better technology replaced it), Jameco salutes the concept that the simplest design is often the most practical… at least until something more sophisticated does a better job.

Air mail Route Beacon St. George, Utah

The Jameco Difference

Customer Service

We work hard to provide the best customer service in the industry. Our management team's first priority is listening and responding to customer feedback. You can email the management team directly at Management@Jameco.com with your feedback and expect a prompt and personal response.

Expanded Shipping Options

Whether you are looking for low pricing on air shipping or just want it as inexpensive as possible, Jameco's expanded options start at less than $4.

Low Price Options

We've designed low prices into our process. Jameco carries three low-priced options from Brand Names, to Jameco's House Brands to Jameco Special Buys. We are franchised distributors for over 200 Brand Name products and we actively price these products below our competitors. We also are famous for our Jameco House Brands (ValuePro, ReliaPro, BenchPro and KitPro) where we provide the same core functionality at a fraction of the price. But we take low pricing a step further with our Special Buys. Look for green pricing coding throughout the catalog for our best priced products.

3 LEVELS OF SAVINGS

| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Catalog Tools

Jump from catalog to website seamlessly with Jameco's exclusive

Enter the web code in the product search box

★Network ICs — Enter Web Code JEQ

Web Code: By simply entering the three character code into the Jameco.com search box you'll find more information, additional web-only products and the latest pricing and availability information. Don't search; simply step from catalog to the website without missing a beat.

Prices and discounts are subject to change without notice.

Semiconductors

7400 Series ★ Web Code: XAG

Part No.	✱Mfr.	Product No.	Pkg.	Description	1	10	100
48979	✦	7400N**	DIP-14	Quad 2-input pos. NAND gate	$1.35	$1.09	$.85
910901	TI	SN7400N	DIP-14	Quad 2-input pos. NAND gate	1.45	1.19	.95
49015	✦	7402N*	DIP-14	Quad 2-input pos. NOR gate	1.95	1.69	1.39
49040	✦	7404N**	DIP-14	Hex inverter	1.59	1.35	1.19
49074	✦	7405N*	DIP-14	Hex inverter (O.C.)	1.29	1.15	.95
49091	✦	7406N**	DIP-14	Hex inverter buffer/driver	.79	.69	.55
49120	✦	7407N**	DIP-14	Hex buffer/driver	.75	.65	.55
49146	✦	7408N*	DIP-14	Quad 2-input pos. AND gate	2.49	2.25	1.95
49189	✦	7410N*	DIP-14	Triple 3-input pos. NAND gate	1.49	1.35	1.19
49402	✦	7413N	DIP-14	Dual 4-input pos. NAND gate	.99	.89	.79
49437	✦	7414N*	DIP-14	Hex schmitt-trigger inverter	1.29	1.15	.95
49630	✦	7416N*	DIP-14	Hex inverter buffer/driver (O.C.)	1.39	1.19	.95
49728	✦	7417N*	DIP-14	Hex buffer/driver (O.C. hi-volt.)	1.39	1.19	.95
50008	✦	7420N*	DIP-14	Dual 4-input NAND gate	.99	.89	.75
50139	✦	7427N*	DIP-14	Triple 3-input NOR gate	.99	.89	.75
50198	✦	7428N	DIP-14	Quad 2-input pos. NAND gate	.89	.79	.69
50227	✦	7430N*	DIP-14	8-input NAND gate	.99	.89	.79
50235	✦	7432N*	DIP-14	Quad 2-input pos. OR gate	1.95	1.75	1.45
50315	✦	7438N*	DIP-14	Quad 2-input NAND buffer	.99	.89	.75
50374	✦	7442N	DIP-16	4 line BCD to 10 line decimal decoder	1.95	1.75	1.49
50403	✦	7445N	DIP-16	BCD-to-decimal decoder/driver	2.49	2.25	1.75
50420	✦	7447N*	DIP-16	BCD-to-7 seg. decoder/driver	2.75	2.49	2.25
50534	✦	7473N	DIP-14	Dual J-K neg-edge-triggered flip-flop	1.95	1.75	1.59
50551	✦	7474N**	DIP-14	Dual D type flip-flop	1.95	1.75	1.49
50577	✦	7475N	DIP-16	4-bit bistable latch	2.75	2.49	2.25
50593	✦	7476N	DIP-16	Dual J-K pos-edge-triggered flip-flop	2.95	2.65	2.39
50631	✦	7483N	DIP-16	4-bit binary full adder	2.95	2.75	2.49
50657	✦	7485N*	DIP-16	4-bit magnitude comparator	2.49	2.25	1.95
50665	✦	7486N	DIP-14	Quad 2-input exclusive OR gate	2.25	2.09	1.95
50681	✦	7489N	DIP-16	64-bit read/write memory	3.95	3.75	3.49
50690	✦	7490N	DIP-14	Asynchronous decade counter	2.95	2.65	2.39
50745	✦	7493N	DIP-14	4-bit binary counter	2.25	1.95	1.75
50770	✦	7495N	DIP-14	4-bit parallel-access shift register	2.25	1.95	1.75
49234	✦	74107N*	DIP-14	Dual J-K flip-flop with clear	1.19	1.09	.95
49322	✦	74121N*	DIP-14	Monostable multivibrator	3.25	2.95	2.75
49357	✦	74123N*	DIP-16	Dual monostable multivibrator	3.95	3.49	2.95
49509	✦	74150N	DIP-24	1-of-16 data selector/multiplexer	3.75	3.25	2.75
49525	✦	74151N*	DIP-16	1-of-8 data selector/multiplexer	.79	.69	.45
49550	✦	74153N*	DIP-16	Dual 4-to-1 data selector/multiplexer	.99	.89	.79
49568	✦	74154N	DIP-24	4-to-16 line decoder/demultiplexer	3.25	2.95	2.75
49584	✦	74155N	DIP-16	Dual 2-to-4 line decoder/demultiplexer	.99	.79	.59
49605	✦	74157N*	DIP-16	Quad 2-to-1 line data selector	1.29	1.19	1.09
49648	✦	74160N*	DIP-16	Synchronous decade counter	.89	.79	.69
49664	✦	74161N	DIP-16	4-bit synchronous binary counter	.89	.79	.69
49681	✦	74164N	DIP-14	8-bit serial shift register	.89	.79	.59
49699	✦	74165N	DIP-16	8-bit serial shift register	.39	.29	.25
49779	✦	74174N*	DIP-16	Hex D-type flip-flop with clear	1.19	1.09	.95
49795	✦	74175N*	DIP-16	Quad D-type flip-flop with clear	1.35	1.25	1.15
49883	✦	74189N	DIP-16	Tri-state 64-bit RAM	2.95	2.75	2.49
49904	✦	74191N	DIP-16	Synch. 4-bit up/down binary counter	1.95	1.75	1.49
49912	✦	74192N	DIP-16	Synch. 4-bit up/down decade counter	3.95	3.75	3.49
49939	✦	74193N	DIP-16	Synch. 4-bit up/down binary counter	2.95	2.75	2.49
49955	✦	74194N	DIP-16	4-bit bi-directional shift register	1.95	1.75	1.49

*10 pcs./ **20 pcs. in 7400 series IC cabinet kit, top right

★74AC/ACT/AHC/ALS Series Online — Enter Web Code CBA

★74ALS/ALVC Series Online — Enter Web Code SVC

TTL Logic Data Book (1988)

Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages)

Last Edition

Part No.	Description	Size (in.)	Wt. (lbs.)	1	5
88225	TTL Logic Data Book	6.0" x 8.5"	2.6	$39.95	$38.95

7400 Series IC Kit ★ Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 139 and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7427, 7430, 7432, 7438, 7447, 7485, 74107, 74121, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474
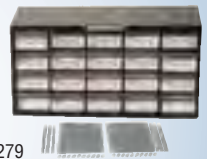
Part No.	Description	Wt. (lbs.)	1	5
84953	350 pcs. 7400 IC kit	6.2	$219.95	$199.95

74C Series ★ Web Code: RAG

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10	100
44222	74C00N	DIP-14	Quad 2-input pos. NAND gate	$2.49	$2.25	$1.75
44257	74C14N	DIP-14	Hex schmitt-trig. inverter (CD40106)	2.49	2.25	1.95
44361	74C221N	DIP-16	Dual monostable multivibrator	3.95	3.49	3.25
44409	74C374N	DIP-20	Octal D-type flip-flop	1.95	1.49	1.25
44564	74C922N	DIP-18	16-key keyboard encoder	8.95	7.95	7.25
44572	74C923N	DIP-20	20-key keyboard encoder	7.95	6.95	6.25
44599	74C926N	DIP-18	4-digit counter w/ 7-seg. output driver	12.95	11.95	10.95

74F Series ★ Web Code: CEN

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10	100
287021	74F14N	DIP-14	Hex schmitt trigger inverter	$.79	$.69	$.59
287048	74F32N	DIP-14	Quad 2-input pos. OR gate	.29	.25	.22
287056	74F74N	DIP-14	Dual D-type flip-flop	.39	.29	.25
287064	74F86N	DIP-14	Quad 2-input exclusive OR gate	.39	.29	.25
44839	74F374N	DIP-20	Octal D-type flip-flop	.59	.49	.39

74HC Series ★ Web Code: SDJ

Part No.	✱Mfr.	Product No.	Pkg.	Description	1	10	100
45161	✦	74HC00N	DIP-14	Quad 2-input pos. NAND gate	$.35	$.25	$.19
906339	NXP	74HC00N	DIP-14	Quad 2-input pos. NAND gate	.79	.65	.55
45188	✦	74HC02N	DIP-14	Quad 2-input pos. NOR gate	.35	.25	.19
45209	✦	74HC04N	DIP-14	Hex inverter	.35	.25	.19
250982	TI	SN74HC04N	DIP-14	Hex inverter	.39	.29	.25
906574	NXP	74HC04N	DIP-14	Hex inverter	.69	.59	.49
88081	✦	74HC05N	DIP-14	Hex inverter (O.C.)	.39	.35	.29
45225	✦	74HC08N	DIP-14	Quad 2-input pos. AND gate	.35	.25	.19
251002	TI	SN74HC08N	DIP-14	Quad 2-input pos. AND gate	.45	.39	.25
45364	✦	74HC14N	DIP-14	Hex schmitt-trigger inverter	.35	.25	.19
251045	TI	SN74HC14N	DIP-14	Hex schmitt-trigger inverter	.39	.29	.25
45794	✦	74HC32N	DIP-14	Quad 2-input pos. OR gate	.35	.25	.19
251088	TI	SN74HC32N	DIP-14	Quad 2-input pos. OR gate	.39	.29	.25
46130	✦	74HC74N	DIP-14	Dual D-type fip-flop	.35	.25	.19
46156	✦	74HC75N	DIP-16	4-bit bi-stable latch	.59	.49	.39
46181	✦	74HC86N	DIP-14	Quad 2-input exclusive OR gate	.35	.25	.19
45305	✦	74HC125N	DIP-14	Tri-state quad bus buffer	.29	.25	.19
45321	✦	74HC132N	DIP-14	Quad 2-input NAND schmitt trigger	.39	.29	.19
45330	✦	74HC138N	DIP-16	3-to-8 line decoder/demultiplexer	.39	.29	.19
897049	TI	CD74HC147E	DIP-16	Encoder 9-to-4 priority CMOS	.55	.45	.35
45399	✦	74HC153N	DIP-16	Dual 4-to-1 data selector/multiplexer	.69	.59	.49
45401	✦	74HC154N	DIP-24	4-to-16 line decoder (0.3" wide)	1.19	1.09	.95
45452	✦	74HC161N	DIP-16	4-bit synchronous binary counter	.69	.59	.49
45487	✦	74HC164N	DIP-14	8-bit serial shift register	.35	.25	.15
251328	TI	SN74HC164N	DIP-14	8-bit serial shift register	.39	.29	.19
45495	✦	74HC165N	DIP-16	8-bit parallel load shift register	.35	.29	.19
251336	TI	SN74HC165N	DIP-16	8-bit parallel load shift register	.39	.35	.25
45541	✦	74HC192N	DIP-16	Synch. 4-bit up/down decade counter	.59	.49	.39
45655	✦	74HC244N	DIP-20	Tri-state octal buffer/line driver	.39	.35	.25
45671	✦	74HC245N	DIP-20	Tri-state octal buffer/line driver	.39	.35	.25
45743	✦	74HC273N	DIP-20	Octal D-type flip-flop	.39	.35	.25
45831	✦	74HC373N	DIP-20	Octal D-type transparent latch	.45	.35	.25

✱ **NXP = NXP/Philips** | **TI = Texas Instruments** | ✦ **Major Brands**

74HC Series (Continued)

★ Web Code: SDJ

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
45858	✦	74HC374N	DIP-20	Octal D-type flip-flop	$.45	$.35	$.25
46050	✦	74HC541N	DIP-20	Tri-state octal buffer/line driver	.39	.35	.29
46076	✦	74HC573N	DIP-20	3-st. octal D-type transparent latch	.39	.29	.25
46084	✦	74HC574N	DIP-20	Tri-state octal D-type flip-flop	.39	.35	.25
46105	✦	74HC595N	DIP-16	8-bit shift register w/ output latch ..	.39	.35	.25
251643	TI	SN74HC595N	DIP-16	8-bit shift register w/ output latch ..	.45	.39	.29
911189	NXP	74HC595N	DIP-16	8-bit shift register w/ output latch ..	.89	.79	.69
45891	✦	74HC4017N	DIP-16	Hi speed decade counter/divider	.45	.39	.35
45920	✦	74HC4040N	DIP-16	12-bit asynch. binary counter	.39	.35	.29
45971	✦	74HC4066N	DIP-14	Quad bilateral analog switch	.45	.39	.35

74HCT Series

Please Note: Manufacturer may vary ★ Web Code: SAG

Part No.	Product No.	Pkg.	Description	1	10	100
44871	74HCT00N	DIP-14	Quad 2-input pos. NAND gate	$.29	$.22	$.15
44898	74HCT04N	DIP-14	Hex inverter	.29	.25	.19
44901	74HCT08N	DIP-14	Quad 2-input pos. AND gate	.29	.19	.15
44935	74HCT14N	DIP-14	Hex schmitt-trigger inverter	.29	.25	.22
45137	74HCT74N	DIP-14	Dual D-type flip-flop	.39	.29	.19
45145	74HCT86N	DIP-14	Quad 2-input exclusive OR gate	.49	.39	.35
44927	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer	.39	.29	.19
44960	74HCT161N	DIP-16	4-bit synchronous binary counter	.59	.49	.45
88065	74HCT193N	DIP-16	Synch. 4-bit up/down binary counter ...	.89	.79	.69
45014	74HCT240N	DIP-20	Octal buffer/line driver	.39	.35	.29
45022	74HCT244N	DIP-20	Tri-state octal buffer/line driver	.35	.29	.25
45031	74HCT245N	DIP-20	Tri-state octal bus transceiver	.39	.35	.29
45065	74HCT373N	DIP-20	Octal D-type transparent latch	.29	.25	.15
109778	74HCT540N	DIP-20	Tri-state octal buffer/line driver	.69	.59	.49
45090	74HCT573N	DIP-20	3-st. octal D-type transparent latch ...	.45	.39	.29
45102	74HCT574N	DIP-20	Tri-state octal D-type flip-flop	.45	.39	.29
45129	74HCT688N	DIP-20	8-bit magnitude comparator	.69	.59	.49

74LS Series

★ Web Code: NBS

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
46252	✦	74LS00N**	DIP-14	Quad 2-input pos. NAND gate	$.45	$.39	$.35
283725	TI	SN74LS00N	DIP-14	Quad 2-input pos. NAND gate	.95	.85	.69
46287	✦	74LS02N**	DIP-14	Quad 2-input pos. NOR gate	.39	.35	.29
283741	TI	SN74LS02N	DIP-14	Quad 2-input pos. NOR gate	.45	.39	.35
46308	✦	74LS03N	DIP-14	Quad 2-input pos. NAND gate (O.C.)	.69	.59	.49
46316	✦	74LS04N**	DIP-14	Hex inverter	.49	.39	.35
283792	TI	SN74LS04N	DIP-14	Hex inverter	.55	.45	.39
46341	✦	74LS05N*	DIP-14	Hex inverter (O.C.)	.69	.59	.49
46359	✦	74LS06N	DIP-14	Hex inverter buffer/driver	.75	.65	.55
46367	✦	74LS07N	DIP-14	Hex buffer/driver	.75	.65	.55
46375	✦	74LS08N**	DIP-14	Quad 2-input pos. AND gate	.45	.39	.35
295401	TI	SN74LS08N	DIP-14	Quad 2-input pos. AND gate.........	.49	.45	.39
46391	✦	74LS09N	DIP-14	Quad 2-input pos. AND gate (O.C.)	.69	.59	.49
46404	✦	74LS10N*	DIP-14	Triple 3-input pos. NAND gate	.59	.49	.39
46439	✦	74LS11N*	DIP-14	Triple 3-input pos. AND gate	.65	.55	.45
46640	✦	74LS14N*	DIP-14	Hex schmitt-trigger inverter	.49	.39	.35
295460	TI	SN74LS14N	DIP-14	Hex schmitt-trigger inverter	.55	.45	.39
47095	✦	74LS20N*	DIP-14	Dual 4-input NAND gate	.79	.69	.59
47108	✦	74LS21N	DIP-14	Dual 4-input AND gate	.59	.49	.39
47378	✦	74LS27N	DIP-14	Triple 3-input NOR gate	.89	.69	.59
47458	✦	74LS30N*	DIP-14	8-input NAND gate	.69	.59	.49
47466	✦	74LS32N**	DIP-14	Quad 2-input pos. OR gate	.45	.35	.29
295515	TI	SN74LS32N	DIP-14	Quad 2-input pos. OR gate...........	.49	.39	.35
47693	✦	74LS38N	DIP-14	Quad 2-input NAND buffer	.79	.69	.59
47773	✦	74LS42N	DIP-14	4 line BCD to 10 line decimal decoder	1.75	1.49	1.25
47790	✦	74LS47N*	DIP-16	BCD-to-7 seg. decoder/driver	1.49	1.29	1.09
295582	TI	SN74LS47N	DIP-16	BCD-to-7 seg. decoder/driver	1.55	1.35	1.15
47811	✦	74LS48N	DIP-16	BCD-to-7 seg. decoder/driver	3.95	3.49	2.95
47992	✦	74LS73N*	DIP-14	Dual J-K neg-edge-triggered flip-flop	1.69	1.49	1.25

*10 pcs./ **20 pcs. in 74LS series IC cabinet kit, pg 4

74LS Series (Continued)

★ Web Code: NBS

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
48004	✦	74LS74N**	DIP-14	Dual D-type flip-flop	$.45	$.39	$.29
295726	TI	SN74LS74AN	DIP-14	Dual D-type flip-flop	.49	.45	.35
48021	✦	74LS75N*	DIP-16	4-bit bi-stable latch	1.59	1.39	1.19
48039	✦	74LS76N	DIP-16	Dual J-K pos-edge-triggered flip-flop	1.49	1.35	1.19
48063	✦	74LS83N	DIP-16	4-bit binary full adder	2.19	1.99	1.79
48071	✦	74LS85N*	DIP-16	4-bit magnitude comparator	.99	.89	.75
48098	✦	74LS86N*	DIP-14	Quad 2-input exclusive OR gate	.45	.39	.29
295751	TI	SN74LS86AN	DIP-14	Quad 2-input exclusive OR gate	.49	.45	.35
48119	✦	74LS90N*	DIP-14	Asynchronous decade counter	1.95	1.75	1.49
295769	TI	SN74LS90N	DIP-14	Asynchronous decade counter	2.09	1.85	1.59
48143	✦	74LS92N	DIP-14	Divide-by-12 decade counter	1.95	1.75	1.49
48151	✦	74LS93N*	DIP-14	4-bit binary counter	1.29	1.09	.95
295822	TI	SN74LS93N	DIP-14	4-bit binary counter	1.39	1.19	1.05
46412	✦	74LS107N	DIP-14	Dual J-K flip-flop with clear	1.09	.99	.89
46421	✦	74LS109N	DIP-16	Dual J-K bar flip-flop	.79	.69	.49
46447	✦	74LS112N	DIP-16	Dual J-K neg-edge-triggered flip-flop	.65	.55	.45
46471	✦	74LS122N	DIP-14	Retriggerable monostable multivib.	.89	.79	.69
46480	✦	74LS123N*	DIP-16	Dual monostable multivibrator	.59	.49	.39
300880	TI	SN74LS123N	DIP-16	Dual monostable multivibrator	.65	.55	.45
46501	✦	74LS125N*	DIP-14	Tri-state quad bus buffer	.65	.55	.45
46527	✦	74LS126N	DIP-14	Tri-state quad bus buffer	.65	.55	.45
46551	✦	74LS132N	DIP-14	Quad 2-input NAND schmitt trigger	.59	.49	.39
46607	✦	74LS138N**	DIP-16	3-to-8 decoder/demultiplexer	.65	.55	.45
301233	TI	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer	.69	.59	.49
46623	✦	74LS139N*	DIP-16	Dual 2-to-4 decoder/demultiplexer	.65	.55	.45
301268	TI	SN74LS139AN	DIP-16	Dual 2-to-4 decoder/demultiplexer	.69	.59	.49
46666	✦	74LS145N	DIP-16	BCD-to-decimal decoder/driver	.89	.79	.65
46682	✦	74LS148N	DIP-16	8-to-3 line priority encoder	1.19	1.09	.95
46703	✦	74LS151N*	DIP-16	1-to-8 data selector/multiplexer ...	.75	.65	.55
46720	✦	74LS153N	DIP-16	Dual 4-to-1 data selector/multiplexer	.75	.65	.55
46738	✦	74LS154N	DIP-24	4-to-16 line decoder/demultiplexer	4.95	4.49	4.25
46754	✦	74LS155N*	DIP-16	Dual 2-to-4 line decoder/demultiplexer	1.19	1.09	.95
46771	✦	74LS157N*	DIP-16	Quad 2-to-1 line data selector	.65	.55	.45
46800	✦	74LS160N	DIP-16	Synchronous decade counter	2.49	2.25	2.05
46818	✦	74LS161N	DIP-16	4-bit synchronous binary counter ..	.59	.49	.45
46842	✦	74LS163N	DIP-16	Synchronous 4-bit binary counter ...	.65	.55	.45
46851	✦	74LS164N	DIP-14	8-bit serial shift register	.65	.55	.45
46877	✦	74LS165N	DIP-16	8-bit parallel load shift register	.65	.55	.45
46885	✦	74LS166N	DIP-16	Serial-out shift register	.89	.79	.59
46906	✦	74LS169N	DIP-16	Synch. 4-bit binary up/down counter	.99	.89	.79
46922	✦	74LS173N	DIP-16	4-bit D-type register w/ 3-state output	1.09	.99	.89
46931	✦	74LS174N*	DIP-16	Hex D-type flip-flop with clear	.75	.65	.55
46957	✦	74LS175N*	DIP-16	Quad D-type flip-flop with clear	.69	.59	.49
46973	✦	74LS181N	DIP-24	Arithmetic logic unit/function generator	3.95	3.49	3.25
46990	✦	74LS190N	DIP-16	Synchronous up/down decade counter	2.95	2.75	2.49
47001	✦	74LS191N	DIP-16	Synch. 4-bit up/down binary counter	.85	.75	.65
47010	✦	74LS192N	DIP-16	Synch. 4-bit up/down decade counter	3.49	3.25	2.95
47036	✦	74LS193N*	DIP-16	Synch. 4-bit up/down binary counter	.79	.69	.59
301831	TI	SN74LS193N	DIP-16	Synch. 4-bit up/down binary counter	.79	.69	.59
47052	✦	74LS194N	DIP-16	4-bit bi-directional shift register .	1.09	.99	.79
47061	✦	74LS195N	DIP-16	4-bit parallel-access shift register	1.49	1.29	1.15
47124	✦	74LS221N	DIP-16	Dual monostable multivibrator	.95	.85	.75
47141	✦	74LS240N*	DIP-20	Octal buffer/line driver	.69	.55	.45
47167	✦	74LS241N	DIP-20	Tri-state octal buffer/line driver	.69	.59	.49
47183	✦	74LS244N*	DIP-20	Tri-state octal buffer/line driver	.65	.55	.45
308312	TI	SN74LS244N	DIP-20	Tri-state octal buffer/line driver	.69	.59	.49
47212	✦	74LS245N*	DIP-20	Tri-state octal bus transceiver	.65	.55	.45
308321	TI	SN74LS245N	DIP-20	Tri-state octal bus transceiver	.75	.65	.55
47247	✦	74LS247N	DIP-16	BCD to 7-seg. decoder/driver	1.39	1.25	1.09
47298	✦	74LS257BN	DIP-16	Tri-state quad 2-data selector/m ..	.49	.39	.35
47327	✦	74LS259N	DIP-16	8-bit addressable latch	.69	.59	.49
47360	✦	74LS266N	DIP-16	Quad 2-input exclusive NOR gate (O.C.)	.89	.79	.69

*10 pcs./ **20 pcs. in 74LS series IC cabinet kit, pg 4

⊛ NXP = NXP/Philip Semiconductor | TI = Texas Instruments | ✦ Major Brands

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Semiconductors

74LS Series (Continued) ★ Web Code: NBS

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
47386	✦	74LS273N*	DIP-20	Octal D-type flip-flop	$.69	$.55	$.45
47407	✦	74LS279N	DIP-16	Quad S-R latch	.89	.79	.69
47423	✦	74LS283N	DIP-16	4-bit binary full add w/ fast carry	1.09	.99	.89
47562	✦	74LS367N	DIP-16	Tri-state hex buffer	.89	.79	.69
309278	TI	SN74LS368AN	DIP-16	6-bit buffer/line driver	.95	.85	.75
47600	✦	74LS373N*	DIP-20	Octal D-type transparent latch	.69	.55	.45
308460	TI	SN74LS373N	DIP-20	Octal D-type transparent latch	.79	.65	.55
47634	✦	74LS374N*	DIP-20	Octal D-type flip-flop	.69	.55	.45
308478	TI	SN74LS374N	DIP-20	Octal D-type flip-flop	.75	.59	.49
47669	✦	74LS377N	DIP-20	Octal D-type flip-flop	.99	.89	.79
47722	✦	74LS390N	DIP-16	Dual 4-bit decade counter	1.35	1.15	.95
47731	✦	74LS393N	DIP-14	Dual 4-bit binary counter	.85	.75	.65
47861	✦	74LS540N	DIP-20	Tri-state octal buffer/line driver	1.29	1.09	.95
47870	✦	74LS541N	DIP-20	Tri-state octal buffer/line driver	.95	.85	.75
64418	✦	74LS573N	DIP-20	Tri-state octal D-type flip flop	3.49	2.95	2.49
47976	✦	74LS670N	DIP-16	4 x 4 register file	1.75	1.49	1.25
309260	✦	74LS682N	DIP-20	8-bit magnitude/identity comp.	1.75	1.49	1.25

*10 pcs. in 74LS series IC cabinet kit, below

74LS Series IC Kit ★ Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 139 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	5
84961	420 pcs. 74LS IC kit	6.7	$169.95	$153.95
130391	Refill for 84961 (420 pcs.)	2.0	154.95	139.95

74S Series — Please Note: Manufacturer may vary ★ Web Code: NCK

Part No.	Product No.	Pkg.	Description	1	10	100
676959	74S00N	DIP-14	Quad 2-input NAND gate	$.69	$.59	$.49
48266	74S02N	DIP-14	Quad 2-input NOR gate	.49	.45	.39
48303	74S08N	DIP-14	Quad 2-input AND gate	.69	.59	.49
48573	74S20N	DIP-14	Dual 4-input NAND gate	.29	.25	.19
48750	74S32N	DIP-14	Quad 2-input positive OR gate	.69	.59	.49
48961	74S86N	DIP-14	Quad 2-input exclusive OR gate	.89	.79	.69
52513	74S428N	DIP-28	System controller/bus driver (8228)	4.95	4.49	3.95
48910	74S571N	DIP-16	(512 x 4) 2048-bit TTL PROM (AM27S13)	2.95	2.49	1.95

4000 Series ★ Web Code: WAA

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
12562	✦	CD4001**	DIP-14	Quad 2-input NOR gate	$.39	$.35	$.29
675964	✦	CD4002	DIP-14	Dual 4-input NOR gate	.39	.29	.22
12597	✦	CD4007	DIP-14	Dual complimentary pair plus inv.	.39	.35	.29
12634	✦	CD4011**	DIP-14	Quad 2-input NAND gate	.39	.35	.29
893283	TI	CD4011BE	DIP-14	Quad 2-input NAND gate	.45	.39	.35
12677	✦	CD4013**	DIP-14	Dual D-type flip-flop	.35	.29	.25
893443	TI	CD4013BE	DIP-14	Dual D-type flip-flop	.39	.35	.29
12706	✦	CD4015*	DIP-16	Dual 4-stage static shift register	.39	.35	.29
12722	✦	CD4016*	DIP-14	Quad bilateral switch	.35	.29	.25
12749	✦	CD4017*	DIP-16	Decade counter/divider	.45	.35	.29
893611	TI	CD4017BE	DIP-16	Decade counter/divider	.49	.39	.35
12773	✦	CD4018	DIP-16	Presettable divide-by-N counter	.39	.35	.25
12802	✦	CD4020*	DIP-16	14-st. ripple carry binary counter	.39	.35	.29
12829	✦	CD4021	DIP-16	8-stage static shift register	.39	.35	.29
12845	✦	CD4023*	DIP-14	Triple 3-input NAND gates	.35	.29	.25
12853	✦	CD4024*	DIP-14	7-stage ripple carry binary counter	.39	.29	.22
353560	✦	CD4026	DIP-16	Decade counter/divider	.45	.35	.29

*10 pcs./**20 pcs. in 4000 series IC cabinet kit, right

4000 Series (Continued) ★ Web Code: WAA

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
12888	✦	CD4027*	DIP-16	Dual J-K master/slave flip-flop	$.39	$.35	$.29
12909	✦	CD4028	DIP-16	BCD-to-decimal decoder	.45	.35	.25
12925	✦	CD4029	DIP-16	Preset up/down binary counter	.45	.39	.35
12950	✦	CD4040*	DIP-16	12-stage binary/ripple counter	.45	.35	.29
12992	✦	CD4043	DIP-16	Tri-state quad NOR R/S latch	.39	.35	.25
13012	✦	CD4046*	DIP-16	Micropower phase lock loop	.49	.39	.35
13039	✦	CD4047	DIP-14	Monostable/astable multivibrator	.39	.35	.29
13055	✦	CD4049**	DIP-16	Hex inverting buffer/converter	.39	.35	.29
13071	✦	CD4050*	DIP-16	Hex non-inverting buffer/converter	.39	.35	.29
13098	✦	CD4051*	DIP-16	Single 8-ch analog multiplexer	.39	.35	.29
894391	TI	CD4051BE	DIP-16	Single 8-ch analog multiplexer	.45	.39	.35
13119	✦	CD4052	DIP-16	Dual 4-ch analog multiplexer	.49	.39	.25
13127	✦	CD4053	DIP-16	Triple 2-ch analog multiplexer	.35	.25	.22
13151	✦	CD4060	DIP-16	14-st. ripple carry binary counter	.45	.35	.29
13186	✦	CD4066**	DIP-14	Quad bilateral switch	.35	.29	.25
13215	✦	CD4067	DIP-24	Single 16-ch analog multiplexer	1.95	1.75	1.49
13231	✦	CD4069*	DIP-14	Hex inverters (74C04)	.39	.35	.25
894761	TI	CD4069UBE	DIP-14	Hex inverters	.29	.25	.19
13258	✦	CD4070*	DIP-14	Quad 2-input exclusive OR gate	.35	.29	.25
13274	✦	CD4071*	DIP-14	Quad 2-input OR gate	.39	.35	.29
676086	✦	CD4073	DIP-14	Triple 3-input AND gate	.39	.35	.29
676094	✦	CD4075	DIP-14	Triple 3-input OR gate	.45	.35	.29
676107	✦	CD4077	DIP-14	Quad exclusive NOR gate	.35	.25	.22
676115	✦	CD4078	DIP-14	8-input NOR/OR gate	.35	.29	.19
13354	✦	CD4081*	DIP-14	Quad 2-input AND gate	.39	.35	.29
676123	✦	CD4082	DIP-14	Dual 4-input AND gate	.39	.35	.29
13400	✦	CD4093*	DIP-14	Quad 2-input NAND schmitt trig.	.39	.35	.29
818873	TI	CD4093BE	DIP-14	CMOS 2-input NAND gate	.45	.39	.35
870807	NSC	CD4093BCN	DIP-14	Quad 2-input NAND schmitt trig.	.59	.49	.45
13426	✦	CD4094	DIP-16	8-bit shift register with latch	.45	.39	.29
13442	✦	CD4099	DIP-16	8-bit addressable latch	.29	.25	.15
13485	✦	CD4510	DIP-16	BCD presettable up/down counter	.45	.39	.35
13493	✦	CD4511*	DIP-16	BCD to 7-segment latch/decoder/driver	.45	.35	.29
895377	TI	CD4511BE	DIP-16	BCD to 7-segment latch/decoder/driver	.49	.39	.35
13522	✦	CD4514	DIP-24	4-bit latch/line decoder	.99	.89	.75
13549	✦	CD4516	DIP-16	Binary up/down counter	.49	.45	.29
13565	✦	CD4518	DIP-16	Dual BCD up counter	.45	.39	.35
2179008	✦	CD4519B	DIP-16	Logic MUX	.99	.89	.75
13581	✦	CD4520	DIP-16	Dual binary up counter	.45	.39	.29
13611	✦	CD4528	DIP-16	Dual monostable multivibrator	.99	.89	.79
13653	✦	CD4538*	DIP-16	Dual monostable multivibrator	.59	.49	.39
13696	✦	CD4543*	DIP-16	BCD to 7-segment decoder driver	.45	.35	.29
13709	✦	CD4553	DIP-16	3-digit BCD counter	2.95	2.75	2.49
54771	✦	CD4557B	DIP-16	64-bit shift register	.99	.89	.75
13768	✦	CD4584*	DIP-14	Hex schmitt trigger	.39	.35	.29
54623	✦	CD40098B	DIP-16	Hex inverting 3-state buffer	.49	.45	.39
676473	✦	CD40102	DIP-16	2-decade BCD 8-st. sync down counter	.79	.69	.59
893179	TI	CD40106BE	DIP-14	Hex schmitt trigger	.39	.29	.25
676502	✦	CD40110	DIP-16	Decade up/down counter	1.29	1.09	.95
2178988	✦	CD40163B	DIP-16	Synch. programmable 4-bit counter	.49	.45	.39

*10 pcs./**20 pcs. in 4000 series IC cabinet kit, below

4000 Series CMOS IC Kit ★ Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 139 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

Part No.	Description	Wt. (lbs.)	1	5
84970	300 pcs. 4000 series CMOS IC kit	6.1	$89.95	$79.95
130403	Refill for 84970 (300 pcs.)	1.4	74.95	67.95

⊛ NSC = National Semi | TI = Texas Instruments | ✦ Major Brands

Semiconductors

5000 Series & Clock Chips

Part No.	✻Mfr.	Product No.	Pkg.	Description	1	10
32803	✦	TCM5089N	DIP-16	Touch tone generator	$4.95	$4.49
26171	✦	M5450B7	DIP-40	LED display driver	4.49	3.95
27422	✦	LM555CN✶✶	DIP-8	Timer	.25	.22
126797	✦	LMC555CN✶	DIP-8	CMOS timer	.69	.59
24328	✦	LM556N✶	DIP-14	Dual timer	.29	.25
95531	✦	RTC72421B	DIP-18	Real time clock	5.95	5.49
25101	✦	MC146818★	DIP-24	Real time clock with RAM	8.95	7.95
10567	AMD	AM9513APC★	DIP-40	Real time clock	29.95	24.95
2146433	CSS	CSS555-ID	DIP-8	Programmable timer	1.95	1.75
2146450	CSS	CSS555C-ID	DIP-8	Programmable timer w/ internal cap	2.35	2.09
2146425	CSS	CSS555-IS	SOIC-8	Programmable timer	1.55	1.39
2146468	CSS	CSS555-DMK	—	Demo kit	79.95	74.95
1392878	ST	M4T28-BR12SH1	SOIC-28	Battery/crystal snaphat	4.95	4.49

*10 pcs./**20 pcs. in Linear series IC cabinet kit, pg 11   ★ Pull = Extra Savings

Basic EZ Programmer

Provides a quick and simple method of reading and programming CSS555 and CSS555C Programmable 555 Timer IC devices (above).

- Runs on 2 AA batteries (included)
- Provides both program and read functions
- Complete programming instructions included

Part No.	Description	1	5
2158733	Stand-alone EZ programmer	$34.95	$31.95

★Clock Management — Enter Web Code CMS

★Digital Signal Processing — Enter Web Code CEQ

6500 Series

Part No.	✻Mfr.	Product No.	Pkg.	Description	1	10
43191	✦	6502★	DIP-40	CPU, 8-bit, 1MHz	$6.95	$5.95
43166	✦	65C02★	DIP-40	CPU, 8-bit, 1MHz (CMOS)	6.95	5.95
43254	✦	6522★	DIP-40	Versatile interface adapter, 1MHz	5.95	5.25
43297	✦	6532★	DIP-40	RAM I/O timer, 1MHz	8.95	7.95
43318	✦	6551★	DIP-28	Asynch. comm. interface adapter, 1MHz ...	4.95	4.49
2184034	WDC	W65C51N6TPG-14	PDIP-28	Asynch. comm. interface adapter, 14MHz	5.95	5.49
2184042	WDC	W65C51N6TPLG-14	PLCC-28	Asynch. comm. interface adapter, 14MHz	5.95	5.49
2143638	WDC	W65C02S6TPG-14	PDIP-40	MPU, 8-bit, 16MHz, 65kB	6.75	5.75
2143591	WDC	W65C22S6TPG-14	PDIP-40	Versatile interface adapter, 14MHz	6.75	5.75
2143558	WDC	W65C21N6TPG-14	PDIP-40	Peripheral interface adapter, 14MHz	5.75	4.75

★ Pull = Extra Savings

6800/68000 CMOS

Part No.	Mfr. Part No.	Pkg.	Description	1	10
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	$10.95	$9.95
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	11.95	10.95
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	9.95	8.95
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	5.95	5.49
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	23.95	21.95

UARTs

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10
43158	6402★	DIP-40	5V CMOS	$5.95	$4.95
27570	NS16C450N★	DIP-40	Asynch. comm. element, 5V	2.25	1.95
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	3.95	3.49

★ Pull = Extra Savings

6800/68000 N-MOS

Part No.	✻Mfr.	Product No.	Pkg.	Description	1	10
43481	✦	6800★	DIP-40	CPU, 8-bit, 5V, 2MHz	$4.95	$4.49
43502	✦	6802★	DIP-40	CPU, 8-bit, 5V, 1MHz	9.95	8.95
43537	✦	6808★	DIP-40	CPU, 8-bit, 7V, 1MHz	6.95	5.95
43545	✦	6809E★	DIP-40	CPU, 8-bit, 7V, 1MHz	3.95	3.49
320590	✦	68B09E★	DIP-40	CPU, 8-bit, 7V, 2MHz	4.95	4.49
43561	✦	6810★	DIP-24	SRAM, 1K-bit, 5V, 1MHz	3.95	3.49
43596	✦	6821★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz ..	3.95	3.49
43414	✦	68B21★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49
43633	✦	6850★	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	4.49	3.95

★ Pull = Extra Savings

8000 Series

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10	100
51844	8031★	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	$3.25	$2.95	$2.75
51676	80C31★	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS ...	3.25	2.95	2.75
876096	P80C31BH-1	DIP-40	MCU, 8-bit, 32 I/O, 16MHz, CMOS ...	3.95	3.49	3.25
102197	8032★	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.49	2.95
51861	8035★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	2.95	2.75	2.49
51959	8039★	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	1.95	1.49	1.25
51692	80C39★	DIP-40	MCU, 8-bit, 27 I/O, 11MHz, CMOS ...	2.95	2.75	2.49
51991	8051AP★✶✶	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	1.49	1.25	.95
125647	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS	33.95	31.95	29.95
52046	8080A★	DIP-40	CPU, 8-bit, 16 I/O, 1MHz	5.49	4.95	4.25
52062	8085AH★	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	4.95	4.49	3.25
52071	8085AH-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.25	4.75	4.49
52100	8086-2★	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	3.95	3.49	2.95
52142	8088★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	3.95	3.49	2.95
34358	UPD70108-8★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	5.95	4.95	3.95
52290	8155★	DIP-40	I/O port timer, 2K-bit, 3MHz	3.95	3.49	2.95
52302	8155-2★	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz ...	4.95	4.49	3.75
52193	81C55★	DIP-40	I/O port timer, 2K-bit, 3MHz, CMOS ...	4.95	4.49	3.95
52468	8212★	DIP-24	I/O port timer, 8-bit, 3MHz	4.95	4.49	3.95
52484	8216	DIP-16	Bi-directional bus driver (non-invert.) ...	1.95	1.75	1.49
52492	8224★	DIP-16	Clock generator/driver	4.95	4.49	3.95
52513	8228	DIP-28	System controller/bus driver	4.95	4.49	3.95
52581	8243★	DIP-24	I/O expander, 5V, MIL. temp	4.95	4.25	3.25
52644	8251★	DIP-28	USART	2.49	2.25	1.95
52652	8251A★	DIP-28	Prog. communications interface	3.95	3.49	2.95
52687	8253-5★	DIP-24	Prog. interval timer, 5MHz	3.49	3.25	2.75
52708	8254★	DIP-24	Prog. interval timer, 8MHz	1.95	1.49	1.25
52716	8254-2★	DIP-24	Prog. interval timer, 10MHz	3.95	3.49	3.25
52409	82C54-2★	DIP-24	Prog. interval timer, 10MHz, CMOS	4.95	4.49	3.95
52724	8255★	DIP-40	CPU peripheral, 2MHz	4.49	3.95	3.49
52732	8255A-5★	DIP-40	CPU peripheral, 5MHz	4.75	4.25	3.75
291805	8255AC-5	DIP-40	CPU peripheral, 4MHz	4.75	4.25	3.75
52417	82C55A★	DIP-40	CPU peripheral, 8MHz, CMOS	4.95	4.49	3.95
52425	82C55A-5	DIP-40	CPU peripheral, 5MHz, CMOS	4.95	4.49	3.95
52759	8256★	DIP-40	Multi func. µproc. support controller ...	17.95	15.95	13.95
52775	8259★	DIP-28	Prog. interrupt controller	2.49	2.25	1.95
52839	8279★	DIP-40	CPU peripheral, 5MHz	10.95	9.95	7.95
52847	8279-5★	DIP-40	CPU peripheral, 5MHz	12.95	11.95	10.95
52871	8284A★	DIP-18	Clock generator/driver, 8MHz	4.95	4.49	3.95
52901	8287★	DIP-20	Octal bus transceiver	7.95	6.95	5.95
53031	8748H✧	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	12.95	11.95	9.95
53057	8749H✧	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	15.95	14.95	12.95

★ 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039
✶✶ Tie pin 31 low to bypass the internal ROM   ★ Pull = Extra Savings   ✧ Refurbished = Backed by Jameco

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
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Z80 MPUs

Please Note: Manufacturer may vary ★ Web Code: JAF

Part No.	Product No.	Pkg.	Description	1	10
35561	Z80★	DIP-40	2.5MHz CPU (MK3880N/780C)	$2.49	$2.25
35596	Z80A★	DIP-40	4MHz CPU (MK3880N-4/780C-1)	2.95	2.75
35609	Z80A-CTC★	DIP-28	4MHz counter timer circuit (MK3882-4)	2.25	1.95
35625	Z80A-DART★	DIP-40	4MHz dual asynchronous receiver/trans	2.49	2.25
35641	Z80A-PIO★	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4) ...	2.49	2.25
35668	Z80A-SIO/0★	DIP-40	4MHz serial I/O, TxCB & RxCB bond. (MK3884-4) ...	2.49	2.25
35705	Z80B★	DIP-40	6MHz CPU (MK3880N-6)	3.25	2.95
35781	Z84C00-4★	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	2.95	2.59
61786	Z85C3008PS★	DIP-40	Serial communications controller	2.95	2.59

★ Pull = Extra Savings

EPROMs

★ Web Code: XAF

Part No.	❋Mfr.	Product No.	Pkg.†	Config.	Description	1	10	100
33611	✦	TMS2716❖	DIP-24	2k x 8	450ns, 5V	$1.49	$1.25	$.95
40002	✦	2716❖	DIP-24	2k x 8	450ns, 5V	3.95	3.75	3.49
40011	✦	2716-1❖	DIP-24	2k x 8	350ns, 5V	3.49	2.95	2.49
308662	✦	2716A-2❖	DIP-24	2k x 8	200ns, 5V	3.95	3.75	3.49
40096	✦	2732❖	DIP-24	4k x 8	450ns, 5V	5.95	5.49	3.95
40133	✦	2732A-45❖	DIP-24	4k x 8	450ns, 5V	3.95	3.75	3.49
40125	✦	2732A-25❖	DIP-24	4k x 8	250ns, 5V	4.95	4.49	3.95
114876	✦	2732B❖	DIP-24	4k x 8	450ns, 5V	4.49	4.25	3.95
40109	✦	2732A-20❖	DIP-24	4k x 8	200ns, 5V	5.49	4.95	4.49
266001	✦	27C32-150❖	DIP-24	4k x 8	150ns, 5V	5.95	5.49	4.95
40192	✦	2764-20❖	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.75
40230	✦	2764A-20❖	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.75
39845	✦	27C64-25❖	DIP-28	8k x 8	250ns, 5V	3.49	3.25	2.95
74608	✦	27C64-20❖	DIP-28	8k x 8	200ns, 5V	3.75	3.49	3.25
39829	✦	27C64-15❖	DIP-28	8k x 8	150ns, 5V	4.25	3.95	3.75
698322	ST	M27C64A-15F1	FDIP-28	8k x 8	150ns, 5V (±10%)	5.95	5.49	5.25
105304	✦	27C64-12❖	DIP-28	8k x 8	120ns, 5V	4.49	4.25	3.85
266036	✦	27C64-100	DIP-28	8k x 8	100ns, 5V	4.95	4.55	4.05
39984	✦	27128A-25❖	DIP-28	16k x 8	250ns, 5V	3.95	3.75	3.49
39950	✦	27128A-15❖	DIP-28	16k x 8	150ns, 5V	4.25	3.95	3.55
39685	✦	27C128-25❖	DIP-28	16k x 8	250ns, 5V	3.75	3.49	3.25
101101	✦	27C128-20❖	DIP-28	16k x 8	200ns, 5V	3.95	3.75	3.49
87935	✦	27C128-12❖	DIP-28	16k x 8	120ns, 5V	4.49	4.25	3.95
40045	✦	27256-20❖	DIP-28	32k x 8	200ns, 5V	2.25	1.95	1.75
39731	✦	27C256-25❖	DIP-28	32k x 8	250ns, 5V	2.35	2.15	1.85
39722	✦	27C256-20❖	DIP-28	32k x 8	200ns, 5V	2.55	2.25	1.95
39714	✦	27C256-15❖	DIP-28	32k x 8	150ns, 5V	2.75	2.49	2.25
698111	ST	M27C256B-15F1	FDIP-28	32k x 8	150ns, 5V	3.95	3.49	3.25
65904	✦	27C256-12❖	DIP-28	32k x 8	120ns, 5V	3.65	3.49	3.25
698091	ST	M27C256B-12F1	FDIP-28	32k x 8	120ns, 5V	4.25	3.75	3.49
112740	✦	27C256-10❖	DIP-28	32k x 8	100ns, 5V	3.75	3.25	2.95
698082	ST	M27C256B-10F1	FDIP-28	32k x 8	100ns, 5V	4.49	3.95	3.59
140476	✦	27C256-70❖	DIP-28	32k x 8	70ns, 5V	4.75	4.49	3.95
266079	✦	27C256-55	DIP-28	32k x 8	55ns, 5V	4.75	4.49	3.95
39802	✦	27C512-25❖	DIP-28	64k x 8	250ns, 5V	2.25	1.95	1.75
39790	✦	27C512-20❖	DIP-28	64k x 8	200ns, 5V	2.25	1.95	1.75
39781	✦	27C512-15❖	DIP-28	64k x 8	150ns, 5V	2.75	2.49	2.25
698234	ST	M27C512-15F1	FDIP-28	64k x 8	150ns, 5V	4.19	3.95	3.75
39773	✦	27C512-12❖	DIP-28	64k x 8	120ns, 5V	2.95	2.75	2.49
698226	ST	M27C512-12F1	FDIP-28	64k x 8	120ns, 5V	4.19	3.95	3.75
131959	✦	27C512-10❖	DIP-28	64k x 8	100ns, 5V	2.95	2.75	2.49
203625	✦	27C512-70	DIP-28	64k x 8	70ns, 5V	3.95	3.75	3.49
203641	✦	27C1024-12	DIP-40	64k x 16	120ns, 5V	3.95	3.25	2.75
39651	✦	27C010-15❖	DIP-32	128k x 8	150ns, 5V	3.25	2.95	2.75

❖ Refurbished = Backed by Jameco   †FDIP = Ceramic frit seal

EPROMs (Continued)

★ Web Code: XAF

Part No.	❋Mfr.	Product No.	Pkg.†	Config.	Description	1	10	100
697987	ST	M27C1001-15F1	FDIP-32	128k x 8	150ns, 5V	$4.95	$4.75	$4.49
74624	✦	27C010-12❖	DIP-32	128k x 8	120ns, 5V	3.49	3.25	2.95
697961	ST	M27C1001-12F1	FDIP-32	128k x 8	120ns, 5V	6.95	6.25	5.59
697944	ST	M27C1001-10F1	FDIP-32	128k x 8	100ns, 5V	4.75	4.49	4.25
146149	✦	27C010-70❖	DIP-32	128k x 8	70ns, 5V	4.25	3.95	3.75
698007	ST	M27C1001-70F1	FDIP-32	128k x 8	70ns, 5V	4.75	4.49	4.25
65699	✦	27C020-15❖	DIP-32	256k x 8	150ns, 5V	3.75	3.49	3.25
78852	✦	27C020-12❖	DIP-32	256k x 8	120ns, 5V	3.75	3.49	3.25
698031	ST	M27C2001-12F1	FDIP-32	256k x 8	120ns, 5V	5.95	5.49	4.95
156267	✦	27C020-10	DIP-32	256k x 8	100ns, 5V	4.25	3.95	3.75
127933	✦	27C4096-12	DIP-40	256k x 16	120ns, 5V	5.49	4.95	4.49
85462	✦	27C040-15❖	DIP-32	512k x 8	150ns, 5V	4.49	4.25	3.95
102293	✦	27C040-12❖	DIP-32	512k x 8	120ns, 5V	4.95	4.75	4.49
266124	✦	27C040-70	DIP-32	512k x 8	70ns, 5V	4.95	4.75	4.49
156275	✦	27C080-10	DIP-32	1M x 8	100ns, 5V	8.95	7.95	7.25
203684	✦	27C080-90	DIP-32	1M x 8	90ns, 5V	8.95	7.95	7.25

❖ Refurbished = Backed by Jameco   †FDIP = Ceramic frit seal

OTP/PROMs

★ Web Code: WAG

Part No.	❋Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
27844	✦	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM ..	$3.95	$3.25	$2.75
27764	✦	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	7.95	6.95	4.95
27781	✦	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	11.95	10.95	9.95
27810	✦	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	3.95	2.95	1.95
27828	✦	N82S185	DIP-18	2k x 4	8-kbit, 7V, 100ns, PROM	1.25	.95	.75
27836	✦	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	3.95	3.59	3.29
394986	ATM	AT27C256R-45PU	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	1.95	1.75	1.49
395081	ATM	AT27C512R-70PU	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	2.25	1.95	1.75
394708	ATM	AT27C010-70PU	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP ...	2.95	2.75	2.49

★ **Network ICs — Enter Web Code JEQ**

EEPROMs

Please Note: Manufacturer may vary ★ Web Code: GAM

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
102058	93C46	DIP-8	64 x 16	3-wire serial, 2-5V	$.29	$.25	$.22
108855	93C56	DIP-8	128 x 16	3-wire serial, 2-5V	.39	.35	.29
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V	.49	.39	.35
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V	.45	.39	.35
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	3.95	3.75	3.49
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	3.75	3.49	3.25
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V	.69	.59	.49
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V	4.95	4.49	3.95
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V	5.49	5.25	4.49
276832	24C512	DIP-8	64k x 8	2-wire serial, 2.5V	1.59	1.35	1.19

Flash Memory

Please Note: Manufacturer may vary ★ Web Code: KAJ

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
74771	28F010-15	DIP-32	128k x 8	150ns, 5V	$1.95	$1.75	$1.49
242595	29F010-90	DIP-32	128k x 8	90ns, 5V	4.25	3.95	3.75
242667	29F040-90	DIP-32	512k x 8	90ns, 5V	5.95	5.49	5.25

Memory Module

Please Note: Manufacturer may vary ★ Web Code: GAG

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
130729	JEEDO7208	8MB	60ns SIMM EDO	2M x 32	72	$.69	$.49

❋ ATM = Atmel Semiconductor | ST = ST Micro | ✦ Major Brands

Static RAM

★ Web Code: WAF

Part No.	◉Mfr.	Product No.	Pkg.	Config.	Description	1	10
38931	✦	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	$2.25	$1.95
42198	✦	5101★	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.95	6.95
38957	✦	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	2.25	1.95
43238	✦	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns	3.95	3.49
38973	✦	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.49	2.25
780810	✦	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP	14.95	12.95
38746	✦	2016-20★	DIP-24	2k x 8	16-Kbit, 5V, 200ns	1.15	1.05
114260	DAL	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV	12.95	10.95
25911	✦	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV	8.95	7.95
42809	✦	6116P-3N★	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.75	1.55
42788	✦	6116P-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.79	1.59
42737	✦	6116LP-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP	1.95	1.75
242675	✦	6116-70	DIP-24	2k x 8	16-Kbit, 5V, 70ns	2.25	1.95
2179032	CPS	6116A-55PC	DIP-24	2k x 8	16-Kbit, 5V, 55ns	1.49	1.25
242683	CPS	CY7C128A-45	DIP-24	2k x 8	16-Kbit, 5V, 45ns, Asynch. ..	1.95	1.75
85121	✦	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.75	3.49
42884	✦	6264LP-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.95	2.75
42892	✦	6264LP-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.49	2.25
42930	✦	6264P-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns	2.49	2.25
114278	DAL	DS1225AB-15	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV	14.95	12.95
114307	DAL	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV	11.95	10.95
242376	✦	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch. ..	1.95	1.75
177113	DAL	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV	13.95	12.95
114323	DAL	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV	12.95	11.95
41970	✦	43256-10L★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	3.49	3.25
75037	✦	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns	2.95	1.95
82472	✦	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.75	2.49
391793	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	3.49	3.25
391822	CPS	CY62256LL-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	3.59	3.39
42876	✦	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP	2.65	2.45
42833	✦	62256LP-10★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	2.49	2.25
42850	✦	62256LP-12★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	2.09	1.89
1927457	ALM	AS6C1008-55PCN	PDIP-32	128k x 8	1M LP, 55ns, 2.7-5.5V, C-temp ..	3.95	3.49
391831	CPS	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	1.75	1.49
131810	✦	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP	6.95	5.95
103982	✦	628128LP-85★	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	4.95	4.49
1927617	ALM	AS6C4008-55PCN	PDIP-32	512k x 8	4M LP, 55ns, 2.7-5.5V, C-temp ..	5.95	5.49
242448	✦	BS62LV4006PIP-55	PDIP-32	512k x 8	4M LP, 55ns, 2.4-5.5V, I-temp	18.95	16.95
157358	✦	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	17.95	15.95

★ Pull = Extra Savings

★ Zilog Flash MCUs — Enter Web Code JAF

★ MPUs — Enter Web Code MPT

★ Universal Programmers and Adapters — Enter Web Code SUP

JAMECO BenchPro   Anti-Static Work Mats

These mats are made of attractive semi-conductive vinyl that provide adequate discharging yet will not short leads or pins.

Part No.	Dimensions	Wt. (lbs.)	1	10	25
10576	11.3" x 22"	0.7	$9.95	$8.95	$7.95
10584	19.5" x 23.5"	1.1	13.95	12.49	10.95
2130853	19.7" x 23.6"	1.1	14.95	13.95	12.95
236541	23.5" x 27.5"	1.4	24.95	22.49	19.95
2152075	24" x 48"	3.9	69.95	64.95	59.95

236541

★ Anti-Static — Enter Web Code XAA

DRAM

Please Note: Manufacturer may vary   ★ Web Code: DRM

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
41339	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R)	$.99	$.89	$.79
41662	4164-150★	DIP-16	64k x 1	150ns (MCM6665-15)	.99	.89	.79
41574	41464-10★	DIP-18	64k x 4	100ns (HY53C464S-10)	1.69	1.59	1.45
41398	41256-120★	DIP-16	256k x 1	120ns (MB81256-12)	.79	.69	.59

★ Pull = Extra Savings

DALLAS   Dallas Semiconductors

★ Web Code: QDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
114198	DS1210	DIP-8	NV controller chip	$3.95	$3.25	$2.49
114219	DS1213C	DIP-28	Smart socket	21.95	19.95	18.95
133410	DS1216C	DIP-28	Smart watch/RAM	25.95	22.95	17.95
114331	DS1232LP	DIP-8	Micromonitor chip	1.95	1.65	1.29
697231	DS1243Y-120+	DIP-28	64k NV SRAM w/ phantom clock	17.95	15.95	14.25
133444	DS1286	DIP-28	Watchdog timekeeper	19.95	17.95	15.95
176778	DS1302	DIP-8	Trickle charge time keeping	3.25	2.39	1.69
1194679	DS1307+	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	3.59	2.75	1.95
1194695	DS1307N+	DIP-8	5V, 64 x 8 serial I2C real time clock, I-temp	2.95	2.25	2.05
780810	DS1511Y	DIP-28	Y2K compliant watchdog clock	14.95	12.95	10.95
114382	DS1620	DIP-8	Digital thermometer and thermostat	5.95	4.95	3.49
865936	DS18B20+	TO-92	Prog. resolution 1-wire digital thermometer	3.95	2.49	2.19
133452	DS12887	DIP-24	Real time clock chip	6.95	5.95	4.95

★ CPLDs and FPGAs — Enter Web Code SAZ

ISD   Voice Chip

Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 28-pin DIP
- Typical 100k record cycles, 1µA standby current and 100 year message retention

Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	$6.95	$6.25	$5.49

PALs & GALs

★ Web Code: YAD

Part No.	◉Mfr.	Product No.	Pkg.	Description	1	10
28020	✦	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	$1.49	$1.25
88399	✦	GAL16V8-10*	DIP-20	10ns 64 x 32 AND array	2.75	2.49
37452	✦	GAL16V8-15*	DIP-20	15ns 64 x 32 AND array	2.25	1.95
37461	✦	GAL16V8-25*	DIP-20	25ns 64 x 32 AND array	2.25	1.95
876539	LAT	GAL16V8D-25LP	DIP-20	25ns 64 x 32 AND array	2.49	2.25
38658	✦	GAL20V8-15**	DIP-24	15ns 64 x 40 AND array	2.49	2.25
39159	✦	GAL22V10-15	DIP-24	15ns 132 x 44 AND array	3.75	3.49
39167	✦	GAL22V10-25	DIP-24	25ns 132 x 44 AND array	2.95	2.75

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs.
* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6,16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6
** Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

IC Anti-Static Accessories

★ Web Code: XAA

Part No.	Product No.	Description	1	10	100
				✳ Order in multiples of 10	
13864	CF2	Conductive foam (12" x 24" x .25") hard black	$11.95	$10.95	$9.95
29516	RIC20#	.300" anti-static rail for 8, 14, 16, 18, 20 & 22-pin ICs	.29	.25	.22
29524	RIC220#	.600" anti-static rail for 24, 28, 36 & 40-pin ICs	.29	.25	.22
29583	RRS	Storage tube rubber stopper	✳	.09	.07

Previously used   *Additional Anti-Static Products, IC Accessories & Tools see page 130*

◉ ALM = Alliance Memory | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | LAT = Lattice Semiconductor | ✦ Major Brands

★For additional products, availability and specifications visit *Jameco.com* and enter the Web Code in the product search box

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Semiconductors

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HOLTEK | National Semiconductor | Allegro | MAXIM | MOTOROLA | Hitachi | Texas Instruments | ST | SAMSUNG

Microcontrollers

★ Web Code: PAV

Part No.	Mfr.	Mfr. Part No.	Pkg.	Description	1	10	100
310974	MCH	PIC10F200-I/P	DIP-8	256 flash, 4MHz, 4 I/O	$.39	$.35	$.29
310982	MCH	PIC10F202-I/P	DIP-8	512 flash, 4MHz, 4 I/O	.49	.39	.35
145040	MCH	PIC12C508A-04/P	DIP-8	512 OTP, 4MHz, 5 I/O	1.05	.95	.85
144258	MCH	PIC12C509A-04/P	DIP-8	1k OTP, 4MHz, 5 I/O	1.05	.95	.85
2177643	MCH	PIC12F509-I/P	DIP-8	1k flash, 4MHz, 6 I/O	.69	.65	.59
223790	MCH	PIC12F629-I/P	DIP-8	1k flash, 20MHz, 6 I/O	.95	.89	.85
223781	MCH	PIC12F675-I/P	DIP-8	1k flash, 20MHz, 6 I/O	.99	.95	.89
312514	MCH	PIC12F683-I/P	DIP-8	2k flash, 20MHz, 6 I/O	1.39	1.29	1.25
247214	MCH	PIC16C54C-20I/P	DIP-18	512 OTP, 25-bit, 20MHz	1.49	1.25	1.09
193359	MCH	PIC16C711-04/P	DIP-18	1k OTP, 4MHz, 13 I/O	1.49	1.25	.95
145111	MCH	PIC16F84A-04/P	DIP-18	1k flash, 4MHz, 13 I/O	3.55	3.45	3.35
193332	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O	3.95	3.75	3.55
312733	MCH	PIC16F88-I/P	DIP-18	4k flash, 20Mhz, 16 I/O	3.25	2.95	2.75
246756	MCH	PIC16F628-20I/P	DIP-18	2k flash, 20MHz, 16 I/O	3.59	3.45	3.25
223749	MCH	PIC16F630-I/P	DIP-14	1k flash, 20MHz, 12 I/O	1.25	1.15	1.05
247142	MCH	PIC16F648A-I/P	DIP-18	4k flash, 20MHz, 16 I/O	2.09	1.95	1.79
223757	MCH	PIC16F676-I/P	DIP-14	1k flash, 20MHz, 12 I/O	1.39	1.25	1.09
312590	MCH	PIC16F684-I/P	DIP-14	2k flash, 20MHz, 12 I/O	1.49	1.35	1.19
312611	MCH	PIC16F688-I/P	DIP-14	4k flash, 20MHz, 12 I/O	1.75	1.65	1.55
2127523	MCH	PIC16F690-I/P	DIP-20	7k flash, 20MHz, 18 I/O	1.89	1.75	1.59
246975	MCH	PIC16F873A-I/SP	DIP-28	4k flash, 20MHz, 22 I/O	3.95	3.75	3.49
193367	MCH	PIC16F876-20/SP	DIP-28	8k flash, 20MHz, 22 I/O	5.95	5.75	5.49
247011	MCH	PIC16F876A-I/SP	DIP-28	8k flash, 20MHz, 22 I/O	4.49	4.35	4.15
247046	MCH	PIC16F877A-I/L	PLCC-44	8k flash, 20MHz, 33 I/O	2.95	2.75	2.49
176882	MCH	PIC16F877-20/P	DIP-40	8k flash, 20MHz, 22 I/O	5.65	5.45	5.25
247038	MCH	PIC16F877A-I/P	DIP-40	8k flash, 20MHz, 33 I/O	4.85	4.69	4.55
2127531	MCH	PIC16F886-I/P	DIP-28	14k flash, 20MHz, 25 I/O	1.95	1.85	1.75
2127540	MCH	PIC16F887-I/P	DIP-40	14k flash, 20MHz, 35 I/O	2.29	2.15	2.05
247994	MCH	PIC18F252-I/SP	DIP-28	32k flash, 40MHz, 23 I/O	5.39	5.19	4.95
248031	MCH	PIC18F452-I/P	DIP-40	32k flash, 40MHz, 34 I/O	5.95	5.75	5.59
248057	MCH	PIC18F458-I/P	DIP-40	32k flash, 40MHz, 33 I/O	6.95	5.95	—
2177651	MCH	PIC18F2550-I/SP	DIP-28	32k flash, 48MHz, 24 I/O	5.29	4.25	4.09
2177660	MCH	PIC18F2620-I/SP	DIP-28	64k flash, 40MHz, 25 I/O	4.95	4.49	4.25
2177678	MCH	PIC18F4550-I/P	DIP-40	32k flash, 48MHz, 35 I/O	5.75	5.49	4.75
2177686	MCH	PIC18F4620-I/P	DIP-40	64k flash, 40MHz, 36 I/O	5.95	5.09	4.89
248330	ATM	ATMEGA8-16PI	DIP-28	8k flash, 16MHz, 23 I/O	4.75	4.25	3.75
323133	ATM	ATMEGA16-16PU	DIP-40	6k flash, 16MHz, 32 I/O	4.49	4.25	3.95
765302	ATM	ATTINY13-20PU	DIP-8	1k flash, 20MHz, 6 I/O	2.25	2.05	1.85
2151312	ATM	ATTINY85-20PU	DIP-8	8k flash, 20MHz, 6 I/O	1.95	1.75	1.59
168874	ATM	AT89C2051-24PU	DIP-20	2k flash, 24MHz, 15 I/O	.99	.79	.69
204089	ATM	AT89C4051-24PU	DIP-20	4k flash, 24MHz, 15 I/O	2.45	2.15	1.75
1537061	ATM	ATTINY2313-20PU	DIP-20	2k flash, 20MHz, 18 I/O	2.75	2.25	2.15
323141	ATM	ATMEGA8515-16PC	DIP-40	8k flash, 16MHz, 35 I/O	3.49	2.95	2.25
168903	ATM	AT89C51-24PC	DIP-40	4k flash, 24MHz, 32 I/O	2.49	2.25	1.95
168920	ATM	AT89C52-24PC	DIP-40	8k flash, 24MHz, 32 I/O	2.95	2.49	1.95
220871	ATM	AT89S52-24JI	PLCC-44	8k flash, 24MHz, 32 I/O	1.35	1.15	.85
662637	ATM	AT89S52-24PC	DIP-40	8k flash, 24MHz, 32 I/O	1.49	1.25	.95
168946	ATM	AT89C55WD-24PC	DIP-40	20k flash, 24MHz, 32 I/O	2.75	2.49	2.25
2139111	ATM	ATMEGA328P-PU	DIP-28	32k flash, 8-bit, 20MHz	4.95	4.49	4.09
2129334	ATM	A000048	DIP-28	32k flash, 8-bit, ATmega328	4.95	4.65	4.49
114403	DAL	DS80C320-MCG	DIP-40	High speed LP micro	10.95	8.95	6.95

Buffer

★ Web Code: WBR

Part No.	Product No.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer	$9.95	$8.95	$7.95

Micromint — 80C52-BASIC Microcontroller

★ Web Code: CAH

A custom-masked microcontroller with a full-featured 8KB ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz • "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Mfr. Part No.	Description	1	10	100
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	$33.95	$31.95	$29.95

PARALLAX — Propeller Microprocessor Chip

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.

Part No.	Mfr. Part No.	Package	1	10
2007134	P8X32A-D40	DIP-40	$12.95	$11.95

USB-to-Serial Prop Plug for Propeller & BASIC Stamp

Provides a USB-to-serial port connection for microcontroller programming and communication. USB cable included. PARALLAX

Part No.	Mfr. Part No.	Description	1	5
2109421	32201	Up to 3Mbps, 3.3V & 5V compatible, 4-pin header	$18.95	$17.95

PARALLAX — BASIC Stamp Modules

★ Web Code: BSM

• **183071:** BS2 OEM Kit Z

Part No.	Mfr. Part No.	Package	Speed	No. of I/O Pins	1	5
127693	BS1-IC	14-pin	4MHz	8	$28.95	$26.95
183071	27291	20-pin SIP	—	—	29.95	27.95
130892	BS2-IC	24-pin	20MHz	16 + 2	48.95	43.95
184911	BS2P24-IC	24-pin	20MHz (turbo)	16 + 2	74.95	69.95
184920	BS2P-40-IC	40-pin	20MHz (turbo)	16 + 2	88.95	79.95
159775	BS2SX-IC	24-pin	50MHz (turbo)	16 + 2	58.95	52.95

Interface Series

★ Web Code: RBU

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
1291647	MCH	TC4420CPA	DIP-8	6A high speed MOSFET driver	$1.49	$1.29
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	7.95	6.95
313322	✦	ICM7228AIPI	DIP-28	5V, 8 digit LCD driver	4.49	3.95
241875	✦	FAN8082	DIP-8	18V, bi-directional DC motor driver	.99	.89
51131	✦	SN75492P	DIP-14	5V, HEX digit driver	2.49	2.25

★ Ethernet Controllers — Enter Web Code LAE

★ Interface Controllers — Enter Web Code HAS

Paladin — Digital Interface

★ Web Code: WBB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	50
171969	PDN1144	DIP-18	Keypad encoder	$5.19	$4.75	$4.25
141532	PDN1200	DIP-18	Unipolar stepper motor controller	6.39	6.09	5.75

Stepper Motor Drivers/Controllers

★ Web Code: GDP

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
288067	ST	L297/1	DIP-20	Stepper motor controller, 5V	$8.95	$7.95	$6.95
245403	ST	L298N	MW-15	Dual full-bridge driver, 46V	2.75	2.49	2.35
2179016	ALL	A3958SB	DIP-24	DMOS full-bridge PWM driver, 50V	1.19	.99	.85
288104	ST	L6203	MW-11	DMOS full-bridge driver, 48V	7.49	6.95	6.25

★ Motion Control — Enter Web Code DEU

⊛ **ALL** = Allegro | **ATM** = Atmel Semiconductor | **DAL** = Dallas Semiconductor | **MAX** = Maxim Semiconductor | **MCH** = Microchip | **ST** = ST Micro | ✦ Major Brands

Motor/Display Drivers

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
1762681	ALL	UDN2981A-T	DIP-18	8-channel source driver	$2.95	$2.75	$2.49
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver	2.75	2.49	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver	2.25	1.85	1.59
24256	NSC	LM3915N	DIP-18	25V, dot/bar display driver	2.75	2.49	2.25
901061	NSC	LM3915N-1	DIP-18	3dB/step, 30db range dot/bar disp. dvr	2.59	2.25	1.79
24272	NSC	LM3916N	DIP-18	3-25V, dot/bar display driver	2.95	2.15	1.89
241824	MOT	MC14489BP	DIP-20	5V, 7-segment LED display driver	3.95	3.75	3.49
2129959	TI	SN65512CN	DIP-20	Dot/vacuum fluorescent display driver ..	.49	.45	.39

KAE Servo Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port.

146472: PIC-SERVO Motion Control Chipset for DC Motors
• For DC motors with digital encoders
• 32-bit position, velocity and acceleration resolution
• PWM and direction outputs connect to servo amplifier
• Two chipset (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

323934

323934/2134432: PIC-SERVO SC Servo Motion Control I.C.
• For DC motors (brush or brushless w/ incremental encoder feedback)
• Serial interface connects to RS232/485/422 communication port
• Position control, velocity control, trapezoidal profiling, plus step and direction inputs

2134467: Motion Basic Controller Chip
• Microcontroller allowing the creation of simple stand-alone motion control programs   • Controls up to 8 PIC control board modules

Part No.	Mfr. Part No.	Package	1	5	25
146472	KAE-T0V4-DPS	DIP-28/18, 0.3"	$35.95	$34.49	$32.95
323934	KAE-T0V10-DP	DIP-28, 0.3"	29.95	28.49	26.95
2134467	KAE-MBV1-DP	DIP-28, 0.3"	28.95	27.49	25.95
2134432	KAE-T0V10-SO	SOIC-28, 0.3"	29.95	28.49	26.95

KAE Smart Serial Adapter

Serial Converter/Stand Alone Host Controller
• Supports USB or RS232 serial interface
• Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
• RS232 operation supports baud rates from 19,200 to 115,200
• Supports Windows®, LINUX, Mac® OS, and other operating systems
• May be used as a stand alone host with either the simple sequencer chip or a PIC18F2620 MCU
• On board connector for MICROCHIP MPLAB ICD2

Part No.	Mfr. Part No.	Description	1	5
1586120	KAE-SSA485-BDV2	Smart serial adapter	$99.95	$94.95

KAE Industrial Motion Controllers

323942: • For brush-type DC motors with 2 or 3 channel incremental encoders
• P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
• Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
• Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

323951: • For 3-phase brushless motors with Hall effect sensors or conventional DC brush-type motors
• Amplifier capable of driving 6A continuously @ up to 48VDC
• High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
• Support for linear & circular interpolation using the PIC-SERVO CMC chipset

323942

184997: • Trapezoidal position profiling, velocity mode, up to 50,000 steps/sec.
• Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
• Integrated indexer and driver for 2 or 4 phase stepper motors

Part No.	Description	Size (L" x W" x H")	1	5
323942	PIC-SERVO motor control board	3.1 x 2.1 x 0.9	$159.95	$151.95
323951	PIC-SERVO 3-phase motor control board	3.1 x 3.1 x 0.9	239.95	227.95
184997	PIC-STEP motor control board	3.1 x 2.1 x 0.9	159.95	151.95

Encoders/Decoders

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
296702	MOT	MC145026P	DIP-16	Encoder, 4.5-18V	$2.95	$2.75	$2.49
296711	MOT	MC145027P	DIP-16	Decoder, 4.5-18V	2.95	2.75	2.49
123730	HOL	HT12E	DIP-18	Encoder, 2.4-12V	1.75	1.55	1.35
123748	HOL	HT12D	DIP-18	Decoder, 2.4-12V	1.65	1.45	1.25

RS-232 Drivers/Receivers

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
142535	✦	MAX202CPE	DIP-16	5V, 120kbps, w/ 0.1μF ext. caps	$2.95	$2.25	$1.59
24811	✦	MAX232CPE★	DIP-16	5V, 200kbps, multichannel	1.85	1.65	1.25
24812	✦	MAX232CPE	DIP-16	5V, 200kbps, multichannel	1.85	1.65	1.25
318959	MAX	MAX232CPE	DIP-16	5V, 200kbps, multichannel	2.49	2.09	1.59
256401	✦	MAX232DR	SOIC-16	5V, 120kbps, dual driver/rcvr	.59	.45	.39
698576	TI	MAX232N	DIP-16	Dual EIA-232 driver/receiver, C-temp ..	.79	.69	.59
903277	TI	MAX232IN	DIP-16	Dual EIA-232 driver/receiver, I-temp	.75	.65	.55
106163	✦	MAX233CPP	DIP-20	5V, 200kbps, multichannel	5.95	5.49	4.75
23157	✦	DS1488N★	DIP-14	15V, quad line driver	.49	.39	.29
16379	✦	DS14C89N	DIP-14	5V, quad line receiver	.79	.69	.59
23181	✦	SN75189N★	DIP-14	5V, quad line receiver	.45	.39	.35
25099	✦	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/rcvr	2.49	2.25	1.95

★10 pcs. in Linear series IC cabinet kit, pg 11

RS-422/423/485 Drivers/Receivers

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
299807	✦	LTC485CN8	DIP-8	RS-485 LP transceiver, 5V	$2.39	$1.65	$1.35
244195	✦	MAX1487CPA	DIP-8	RS-485/422 LP transceiver, 12V	1.75	1.49	1.25
39571	✦	26LS30	DIP-16	RS-422/423 line driver, 5V	2.49	2.25	1.95
50948	✦	SN75174N	DIP-16	RS-422 quad diff. line driver w/ 3 st. ..	1.29	1.19	1.09
50956	✦	SN75175N	DIP-16	RS-422/423 quad diff. line receiver, 5V	1.75	1.49	1.25
758364	TI	SN75176AP	DIP-8	RS-422 differential bus transceiver ..	.59	.49	.39
50964	✦	SN75176BN	DIP-8	RS-422 diff. line bus transceiver, 5V	.99	.89	.79

A/D & D/A Converters

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
277131	MAX	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-ch	$10.95	$9.95	$8.95
10145	NSC	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch ...	3.95	3.49	3.25
10153	NSC	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch ...	3.19	2.59	2.19
10170	NSC	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch ...	4.75	4.25	3.75
10225	NSC	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5μs	3.49	3.25	2.95
116100	NSC	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32μs	2.49	2.09	1.75
43756	✦	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, ±5V	2.75	2.49	2.25
115158	ADI	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3μs, 1-ch ..	11.95	10.95	9.95
1944581	SAM	KDA0408	DIP-42	D/A, 8-bit, 5V, 60Msps, triple	.59	.49	.45
14904	NSC	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.39	1.19	.95
14947	NSC	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.75	1.49	1.19
14963	NSC	DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1μs	4.95	4.25	3.35
290052	TI	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	3.49	3.25	2.75

Comparators

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
23528	✦	LM311N★	DIP-8	Voltage comparator	$.29	$.25	$.19
23851	✦	LM339N★★	DIP-14	Quad comparator	.25	.22	.17
826742	TI	LM339N	DIP-14	Quad differential comparator	.29	.25	.19
120900	✦	LM392N	DIP-8	Low power op amp./volt comp.	1.19	1.09	.95
212177	✦	LM393AN	DIP-8	Low power low offset volt quad comp.	.39	.29	.25
24281	✦	LM393N★	DIP-8	Dual comparator	.25	.22	.17
973531	FSC	LM393N	DIP-8	Dual differential comparator ±18V	.29	.25	.19

★10 pcs./**★★**20 pcs. included in Linear kit, pg 11

ANALOG DEVICES | FAIRCHILD | *National Semiconductor* | ON | ST | MICROCHIP | JAMECO ValuePro | TEXAS INSTRUMENTS | ASTEC

Semiconductors

ANALOG DEVICES Amplifiers

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1780862	AD620ANZ	DIP-8	Low cost, LP instrumentation amp	$6.95	$5.95	$5.25

TI Amplifiers

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
825934	INA126PA	DIP-8	µPower instrumentation amp.	$2.75	$2.49	$2.25
1780985	AD623ANZ	DIP-8	Single supply, rail-to-rail	4.49	3.95	3.59

Audio Amps

Part No.	⊛Mfr.	Product No.	Pkg./Pins	Description	1	10	100
243678	ADI	OP275GP	DIP-8	Dual JFET audio op amplifier	$2.59	$2.25	$1.85
24037	NSC	LM380N	DIP-14	2-watt, power amplifier	1.39	1.15	.89
24088	NSC	LM383T	TO-220/5	7-watt, high power	5.95	5.49	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amplifier	1.75	1.49	1.25
193623	NSC	LM386M-1	SOIC-8	Low volt audio power amp.	.59	.49	.39
24125	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V	.89	.75	.59
24126	NSC	LM386N-1	DIP-8	Low voltage, 250mW/6V	.95	.79	.69
24133	NSC	LM386N-3*	DIP-8	Low voltage, 500mW/9V	.79	.65	.55
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation)	2.95	2.75	2.49
23270	NSC	LM1875T	TO-220/5	20-watt audio power amp.	3.15	2.95	2.75
835753	NSC	LM1875T/LB03	TO-220/5	20W audio pwr amp. (staggered leads)	3.25	2.95	2.75
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	2.95	2.49	2.25
107140	NSC	LM1881N	DIP-8	Video synchronous separator	2.49	2.15	1.95
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp.	4.95	4.49	3.95
1416796	ST	TDA2030AV	PWAT-5	18-watt audio amplifier	2.49	2.25	2.09
315344	ST	TDA2040V	PWAT-5	20-watt hi-fi power	2.49	2.25	2.05
275830	TI	OPA2134PA	DIP-8	High performance audio op amp.	2.95	2.49	2.25
320670	NSC	LM3886TF	TO-220/11	68-watt high-perf., isol. pkg.	5.49	4.95	4.49
192516	NSC	LM3886T	TO-220/11	68-watt high-performance	6.25	5.25	4.75
302201	NSC	LM4752T☆	TO-220/7	Stereo 11-watt audio power amp.	4.95	4.49	3.95
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	.89	.79	.59
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	2.49	2.25	1.95

*10 pieces included in Linear kit, pg 11   ☆ Pull = Extra Savings

Op Amps

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
27852	✦	OP07CP	DIP-8	Ultra-low offset voltage	$.89	$.79	$.69
115318	✦	OP27GP	DIP-8	Low noise precision (-40° to 80°C)	2.49	1.95	1.59
33161	✦	TL062CP	DIP-8	Low power JFET op amp.	.49	.39	.35
33187	✦	TL071CP	DIP-8	Low noise JFET op amp.	.29	.25	.22
213073	✦	TL072ACP	DIP-8	Low noise JFET input op amp.	.69	.59	.49
33195	✦	TL072CP*	DIP-8	Low noise JFET dual op amp.	.25	.22	.19
33216	✦	TL074CN*	DIP-14	Low noise JFET quad op amp.	.45	.39	.35
33232	✦	TL081CP	DIP-8	JFET input, offset control	.39	.35	.29
33241	✦	TL082CP*	DIP-8	JFET input dual op amplifier	.39	.35	.29
214084	✦	TL084ACN	DIP-14	JFET input op amplifier	.49	.39	.35
33267	✦	TL084CN*	DIP-14	JFET input quad op amplifier	.39	.35	.29
143917	TI	TLC272CP	DIP-8	LinCMOS precision dual op amp.	.69	.59	.49
212151	✦	LM301AN*	DIP-8	Operational amplifier	.65	.55	.45
245673	✦	LM308AH	TO-5/8	Precision op amplifier	4.95	4.49	3.95
23464	✦	LM308N*	DIP-8	Precision op amplifier	6.95	6.25	5.49
23608	NSC	LM318N	DIP-8	Precision high speed	.89	.79	.69
212169	✦	LM324AN	DIP-14	Low power quad op amplifier	.29	.25	.25
23683	✦	LM324N**	DIP-14	Low power quad op amplifier	.29	.25	.22
826671	TI	LM324NE4	DIP-14	Quad op amplifier	.35	.29	.25
973110	FSC	LM324N	DIP-14	Quad op amp., supply volt. ±16V	.39	.35	.25

*10 pcs./**20 pcs. included in Linear cabinet kit, pg 11

Op Amps (Continued)

Part No.	⊛Mfr.	Product No.	Pkg./Pins	Description	1	10	100
22904	✦	LF347N	DIP-14	Quad JFET input (wide band)	$.55	$.45	$.39
23915	✦	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.35	.29	.25
22912	✦	LF351N	DIP-8	BIFET op amplifier	.99	.89	.79
22939	✦	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.39	.35	.29
22971	NSC	LF356N*	DIP-8	JFET input (wide band)	.99	.85	.65
22998	✦	LF357N	DIP-8	JFET input (wide band)	2.49	2.25	1.95
120862	✦	LM358AN	DIP-8	Low power dual (improved 358N)	.25	.22	.19
23966	✦	LM358N*	DIP-8	Low power dual op amplifier	.29	.25	.22
826793	TI	LM358P	DIP-8	Low power dual op amplifier	.39	.35	.25
23018	✦	LF411CN*	DIP-8	Low offset drift JFET input	1.25	1.09	.89
23026	✦	LF412CN*	DIP-8	Low offset drift JFET input dual	1.35	1.19	.89
106681	✦	LF442CN	DIP-8	Dual low power JFET input	1.19	1.05	.79
119992	✦	LF444CN	DIP-14	Quad low power JFET input	1.49	1.25	1.05
143976	✦	LMC660CN	DIP-14	CMOS quad operational amplifier	1.75	1.45	1.09
120926	✦	LM675T	TO-220/5	Power op amplifier	4.75	4.25	3.49
24521	✦	LM741CH	TO-5/8	Op amplifier	4.95	4.49	4.25
24539	✦	LM741CN**	DIP-8	Op amplifier	.29	.25	.22
24540	✦	LM741CN	DIP-8	Op amplifier	.29	.25	.22
830522	TI	UA741CP	DIP-8	General purpose op amplifier	.39	.35	.29
840763	NSC	LM741CN/NOPB	DIP-8	General purpose op amplifier	.79	.59	.45
24563	✦	LM747CN	DIP-14	Dual 741 op amplifier	.79	.69	.59
239222	✦	LTC1001CN8	DIP-8	Precision op amplifier	1.95	1.75	1.49
239169	✦	LT1013CP	DIP-8	Dual precision op amplifier	1.95	1.75	1.49
239177	✦	LT1014DN	DIP-14	Quad precision op amplifier	3.95	3.49	3.25
1745688	LTC	LTC1050CN8	DIP-8	Precision zero-drift op amp w/ interal cap	4.29	3.89	3.65
23131	✦	LM1458N*	DIP-8	Dual op amplifier	.35	.29	.25
903509	TI	MC1458P	DIP-8	Dual general purpose op amplifier	.35	.25	.22
1085819	TI	TLC2272CP	DIP-8	Advanced LinCMOS® rail-to-rail	1.79	1.49	1.29
1944839	TI	TLV2772CP	DIP-8	Hi slew rate r-r output, w/ shutdown	.99	.89	.79
12116	✦	CA3080E	DIP-8	Op transconductance amplifier	3.95	3.75	3.49
12183	✦	CA3130E	DIP-8	CMOS op amplifier	1.59	1.35	1.05
12204	✦	CA3140E	DIP-8	Bi-MOS op amplifier	1.29	1.19	1.09
24168	✦	LM3900N	DIP-14	Quad amplifier	.49	.45	.35
251125	✦	MC4558CN	DIP-8	Wide bandwidth dual bipolar	.45	.35	.25
908289	TI	RC4558P	DIP-8	Dual general purpose op amp, ±15V	.39	.35	.25
27385	✦	NE5532*	DIP-8	Dual low noise op amplifier	.49	.45	.39
252970	✦	NE5532AP	DIP-8	Dual lower noise op amplifier	.89	.69	.59
27406	✦	NE5534	DIP-8	Low noise op amplifier	.79	.69	.59
302076	NSC	LM6134BIN	DIP-14	Quad LP r-r in/out, 10MHz	3.49	3.25	2.75
302060	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	2.95	2.59	—
301874	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	1.95	1.75	1.49
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O, lower VOS	3.49	2.95	2.59
192532	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.69	1.45	1.19
192533	NSC	LM13700N/NOPB	DIP-16	Dual op transcon. w/ diodes/buffer	1.75	1.49	1.25
871586	ON	MC33204P	DIP-14	Low voltage, rail-to-rail	.89	.69	.49
251061	ON	MC34072P	DIP-8	Single supply 3V-44V op amplifier	.99	.79	.59

*10 pcs./**20 pcs. included in Linear cabinet kit, pg 11

Digital Potentiometers

Part No.	⊛Mfr.	Product No.	Pkg.	Description	1	10	100
1778367	ADI	AD5282BRU200	TSSOP-16	Dual, 256 position	$2.95	$2.59	$2.39
241744	MCH	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI	1.49	1.25	.99
241752	MCH	MCP42010-I/P	DIP-14	10kΩ, 256 steps, 2-ch SPI	1.95	1.75	1.49

⊛ ADI = Analog Devices | FSC = Fairchild | MCH = Microchip | MOT = Motorola | LTC = Linear Technology | NSC = National | ON = ON Semi | ST = ST Micro | TI = Texas Ins. | ✦ Major Brands

Semiconductors

Linear Series

⁂ Order in multiples of 10

Part No.	⊛Mfr.	Product No.	Pkg./Pins	Description	1	10	100
25751	✦	MF10CCN	DIP-20	Gen. purpose dual active filter	$3.49	$2.95	$2.49
16301	✦	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)	2.95	2.75	2.49
239281	✦	DG201BDJ	DIP-16	Quad analog switch	1.75	1.49	1.35
1341966	TI	L293DNE	DIP-16	Quad half-H drivers, I-temp	2.95	2.49	1.95
1342011	TI	L293NE	DIP-16	Quad half-H drivers, C-temp	2.95	2.75	2.49
23721	✦	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.39	1.95	1.75
23739	NSC	LM334Z	TO-92/3	Adjust current source	.79	.65	.49
23771	NSC	LM336Z-2.5	TO-92/3	Voltage reference (2.5V)	.39	.35	.29
24117	✦	LM385Z-1.2	TO-92/3	Micropwr volt. ref. diode (1.2V)	.49	.45	.35
23000	✦	LF398N	DIP-8	Sample and hold circuit	1.29	1.05	.85
309833	✦	DG403DJ	DIP-16	Dual SPDT & SPDT analog switch	2.49	2.25	1.95
33347	✦	TL431CLP	TO-92/3	Program precision reference	.29	.22	.15
33355	✦	TL494CN	DIP-16	Contrl circuit pulse-width-modulated	.59	.49	.39
86799	✦	LM555CM	SOIC-8	Timer	.35	.29	.25
27422	✦	LM555CN✶✶	DIP-8	Timer (MC1455P/NE555V)	.25	.22	.17
27423	✦	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.29	.25	.19
973646	FSC	LM555CN	DIP-8	Timer	.29	.25	.19
126797	✦	LMC555CN✶	DIP-8	CMOS timer	.69	.59	.45
841571	NSC	LMC555CN/NOPB	DIP-8	CMOS timer	1.49	1.25	.95
890091	ST	NE555N	DIP-8	Gen. purp. single bipolar timer	.29	.25	.22
904085	TI	NE555P	DIP-8	Precision timer	.39	.35	.25
761272	TI	TLC555CP	DIP-8	LinCMOS™ timer, C-temp	.65	.55	.49
24328	✦	LM556N✶	DIP-14	Dual 555 timer	.29	.25	.22
904114	TI	NE556N	DIP-14	Dual precision timer	.35	.29	.25
27473	ST	NE564N	DIP-16	High freq. phase locked loop	2.49	2.25	1.95
24352	✦	LM565N	DIP-14	Phased locked loop	2.95	2.75	2.49
24395	✦	LM567CN	DIP-8	Tone decoder	1.39	1.09	.95
27490	ST	NE571N	DIP-16	Compander, subscriber	4.49	4.25	3.95
115174	ADI	AD620AN	DIP-8	Low-cost instrument amp.	6.49	5.25	4.49
1780985	ADI	AD623ANZ	DIP-8	Sngl supply r-to-r instrument amp.	4.49	3.95	3.59
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier	6.95	6.25	5.75
23211	✦	MC1496P	DIP-14	Balanced mod/demodulator	1.75	1.49	1.25
1944821	✦	P1803AC	TO-220	Balanced three-chip sidactor	⁂	.19	.15
34278	✦	ULN2003A✶	DIP-16	Hi-volt/curr. darl. transistor array	.35	.29	.25
1147178	TI	ULN2003AN	DIP-16	Hi-volt/curr. darl. transistor array	.49	.45	.35
193826	✦	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.29	.22
2179024	✦	ULQ2003A	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294	✦	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34972	EXR	XR2206CP	DIP-16	Monolithic function generator	7.95	7.25	6.75
34999	✦	XR2211	DIP-14	FSK demodulator/tone decoder	2.19	1.95	1.75
34315	✦	ULN2803A✶	DIP-18	Hi-volt/curr. darl. transistor array	.59	.55	.49
34316	✦	ULN2803A	DIP-18	Hi-volt/curr. darl. transistor array	.65	.59	.55
700664	TI	ULN2803AN	DIP-18	Darlington transistor array, I-temp	1.49	1.25	.95
123625	NSC	LM2907N-8	DIP-8	Frequency to volt converter	1.75	1.49	1.19
23317	NSC	LM2907N	DIP-14	Frequency to volt converter	1.69	1.49	1.25
23350	NSC	LM2917N-8	DIP-8	Freq. to volt conv. w/ zener	1.49	1.35	1.19
23341	NSC	LM2917N-14	DIP-14	Freq. to volt conv. w/ zener	1.49	1.35	1.15
12079	✦	CA3046N	DIP-14	NPN transistor array	1.49	1.39	1.25
12159	✦	CA3086N	DIP-14	NPN transistor array	1.95	1.75	1.49
31974	✦	SG3524N	DIP-16	Regulating pulse width modulator	.89	.79	.59
51140	✦	7555IPA	DIP-8	CMOS timer	.45	.39	.35
51174	✦	7660CPA	DIP-8	CMOS volt converter (+5 to ±5V)	.75	.65	.55
53786	FSC	9602PC	DIP-16	Dual retrig. resett. monostable multivib.	.39	.29	.19
118586	ON	MC145151P	DIP-28	Parallel input PLL freq synthesizer	3.95	3.25	2.49
1054684	TI	SN754410NE	DIP-16	Quad half-H drivers	1.95	1.75	1.55

✶10 pcs./✶✶20 pcs. included in Linear cabinet kit, above right
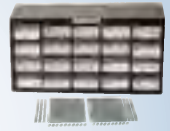
Linear IC Kit

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 139 and 30 adhesive labels for drawers to identify parts in kit.

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003A, ULN2803A, NE5532N, 7808T, 78L12, 7815T, 7905T, 7912CT, 7915CT

20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05, 7812T

Part No.	Description	Wt. (lbs.)	1	5
84988	480 pcs. (40 types) analog IC kit	6.0	$199.95	$179.95
130411	Refill for 84988 (480 pcs.)	1.3	184.95	169.95

Temperature Sensors

Part No.	⊛Mfr.	Product No.	Pkg/Pins	Description	1	10	100
107094	NSC	LM34CZ	TO-92/3	Prec temp sensor (-40° to +230°F)	$5.95	$5.25	$4.75
155192	NSC	LM34DZ	TO-92/3	Prec temp sensor (+32° to +212°F)	2.05	1.75	1.55
1467905	NSC	LM34DZ/NOPB	TO-92/3	Prec temp sensor (+32° to +212°F)	2.09	1.79	1.59
107107	NSC	LM35CZ	TO-92/3	Prec temp sensor (-40° to 110°C)	3.95	3.49	3.25
2162610	MCH	TC77-3.3MCTTR	SOT23/5	High accuracy (-55° to 125°C)	.75	.65	.55
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C)	2.49	1.95	1.55
155740	NSC	LM35DZ	TO-92/3	Prec temp sensor (0° to +100°C)	1.59	1.25	.95
278387	ADI	TMP36GT9	TO-92	Low voltage temp. sensor	1.29	1.09	.95
120820	✦	LM335AZ	TO-92/3	Precision temperature sensor	.99	.89	.79
23755	✦	LM335Z	TO-92/3	Volt mode temperature sensor	.75	.65	.55
1268893	NSC	LM335Z/NOPB	TO-92/3	Precision temperature sensor	.89	.79	.59
241939	ADI	AD590JH	TO-52/3	Two terminal IC temp transducer	7.95	7.25	6.49
313306	ADI	AD594AQ	DIP-14	Thermocple amp for iron-constantan	13.95	13.49	13.25
313293	ADI	AD595AQ	DIP-14	Thermocple amp for chromel-alumel	14.95	13.95	12.95
302551	DAL	DS18S20	TO-92/3	High-prec. 1-wire digital thermo	3.95	3.25	2.25

Hall Effect Sensors

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1718743	A1302EUA-T	SIP-3	4.5V to 6V, 11mA, 1.3mV/G sensitivity	$1.95	$1.75	$1.49
2135881	A1302KUA-T	SIP-3	4.5V to 6V, 11mA, 1.3mV/G sensitivity	1.95	1.75	1.49
1718701	A1104LUA-T	SIP-3	3.8V to 24V, 7.5mA, Brp=25G. Bop=450G	1.49	1.25	1.09
1871879	OH180U	SIP-3	Mono IC w/ hall linear amp & sensor	2.95	2.59	2.29

Voltage Regulators

Part No.	⊛Mfr.	Product No.	Pkg./Pins	Description	1	10	100
23499	✦	LM309K	TO-3/2	5V, 1A (0°C to +125°C)	$4.95	$4.49	$4.25
192268	NSC	LM317AT	TO-220/3	3-terminal adj. (1.2V-37V)	1.45	1.25	.89
837898	NSC	LM317AT/NOPB	TO-220/3	3-term. 1.5A output adj pos, I-temp	1.59	1.29	.95
192276	NSC	LM317HVT	TO-220/3	3-terminal adj. (1.2V-57V)	2.19	1.89	1.49
23544	✦	LM317K	TO-3/2	1.5A adj. positive (1.2V-37V)	3.95	3.49	3.25
23552	✦	LM317LZ	TO-92/3	100mA adj. positive (1.2V-37V)	.29	.25	.22
23579	✦	LM317T✶✶	TO-220/3	1.5A adj. positive (1.2V-37V)	.35	.29	.25
23580	✦	LM317T	TO-220/3	1.5A adj. positive (1.2V-37V)	.39	.35	.29
23667	✦	LM323K	TO-3/2	5V, 3A positive	4.75	4.25	3.59
296841	✦	LM337LZ	TO-92/3	3-terminal adjustable negative	.69	.59	.49
23819	✦	LM337T✶	TO-220/3	1.5A/adj. neg. (-1.2V-37V)	.49	.45	.39
23835	✦	LM338K	TO-3/2	5A adj. positive (1.2V-32V)	6.95	6.25	5.75
192284	NSC	LM338T	TO-220/3	5A adjustable	1.89	1.45	1.19
838621	NSC	LM338T/NOPB	TO-220/3	5A adjustable positive	1.75	1.49	1.25
900017	NSC	LM340T-5.0	TO-220/3	5V, 1A positive, I-temp	1.39	1.19	.95
23931	✦	LM350K	TO-3/2	3A/3 term. adj. pos. (1.2V-33V)	6.25	5.75	5.25
23940	✦	LM350T	TO-220/3	3A adjustable power	.59	.49	.45
24467	✦	LM723CN✶	DIP-14	Voltage regulator (2V-37V)	.39	.35	.29
301719	✦	LM723H	TO-5/10	2V - 37V, 150mA adj.	1.95	1.49	1.25
107166	NSC	LM2936Z-5.0	TO-92/3	Ultra-low quiescent current 5V	1.69	1.49	1.29
51246	✦	7805K	TO-3/2	5V, 1A positive (LM340K-5)	2.49	2.25	1.95
51262	✦	7805T✶✶	TO-220/3	5V, 1A positive (LM340T-5)	.29	.25	.22

✶10 pcs./✶✶20 pcs. included in Linear kit, above

⊛ ADI = Analog Devices | DAL = Dallas | EXR = EXAR | FSC = Fairchild Semi | MCH = Microchip | NSC = National Semi | ON = ON Semi | ST = ST Micro | TI = Texax Ins. | ✦ Major Brands

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Voltage Regulators & IC Sockets

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Voltage Regulators (Continued)

★ Web Code: TAC

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
51263	✦	7805T	TO-220/3	5V, 1A positive (LM340T-5) ...	$.35	$.29	$.25
924570	ST	L7805ACV	TO-220/3	5V, 1.5A positive	.39	.35	.29
924633	ST	L7805CV	TO-220/3	5V, 1.5A positive	.45	.35	.29
786138	FSC	LM7805CT	TO-220/3	5V, 1A positive, I-temp	.45	.39	.35
902071	NSC	LM7805CT	TO-220/3	5V, 1A positive	1.39	1.19	.95
876221	ON	MC7805CT	TO-220/3	5V, 1A positive, C-temp	.29	.25	.22
51182	✦	78L05**	TO-92/3	5V, 100mA positive	.25	.22	.17
51183	✦	78L05	TO-92/3	5V, 100mA positive	.29	.25	.19
192233	✦	78M05	TO-220/3	5V, 500mA positive	.29	.25	.22
51297	✦	7806T	TO-220/3	6V, 1A positive (LM340T-6)	.35	.29	.25
51300	✦	7808T*	TO-220/3	8V, 1A positive (LM340T-8)	.35	.29	.25
876352	ON	MC7809CT	TO-220/3	9V, 2.2A positive, C-temp	.39	.35	.29
1958641	FSC	LM7809CT	TO-220/3	9V, 2.2A positive	.59	.49	.39
192225	✦	78L09ACZ	TO-92/3	9V, 100mA positive	.29	.25	.19
51318	✦	7812K	TO-3/2	12V, 1A pos. (LM340K-12)	2.95	2.75	2.49
51334	✦	7812T**	TO-220/3	12V, 1A pos. (LM340T-12)	.29	.25	.22
51335	✦	7812T	TO-220/3	12V, 1A pos. (LM340T-12)	.45	.39	.35
889305	ST	L7812CV	TO-220/3	12V, 1.5A positive	.39	.35	.29
902127	NSC	LM7812CT	TO-220/3	12V, 1A positive	1.39	1.19	.95
51203	✦	78L12*	TO-92/3	12V, 100mA positive	.29	.22	.15
51377	✦	7815T*	TO-220/3	15V, 1A positive (LM340T-15)	.35	.29	.25
51414	✦	7824T	TO-220/3	24V, 1A positive (LM340T-24)	.35	.29	.25
51457	✦	7905T*	TO-220/3	-5V, 1A neg. (LM320T-5)	.35	.29	.25
51422	✦	79L05	TO-92/3	-5V, 100mA negative	.35	.29	.25
2132269	✦	7906A	TO-220/3	-6V, 500mA negative	.35	.29	.25
51481	✦	7912T*	TO-220/3	-12V, 1A neg. (LM320T-12)	.35	.29	.25
51502	✦	7915T*	TO-220/3	-15V, 1A neg. (LM320T-15)	.39	.35	.29
2205237	✦	GL-7924	TO-220/3	-24V, 2.2A	.39	.29	.25
316945	MOT	MC34063AP1	DIP-8	1.5 step-up/down invert sw reg ...	.49	.39	.35

*10 pcs./ **20 pcs. included in Linear kit, pg 11

Low Drop-Out Voltage Regulators

★ Web Code: MBT

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
299743	NSC	LM1084IT-ADJ	TO-220/3	5A low dropout adj. pos.	$2.49	$2.25	$2.05
299735	NSC	LM1084IT-3.3	TO-220/3	5A low dropout 3.3V pos.	1.95	1.75	1.49
835593	NSC	LM1084IT-5.0/NOPB	TO-220/3	5A, 5V LDO pos., I-temp	2.75	2.49	2.05
192305	✦	LM1086CT-3.3	TO-220/3	1.5A low dropout pos. (3.3V)	.99	.89	.79
251782	NSC	LM1117MPX-ADJ	SOT-223/3	800mA low dropout linear	.79	.69	.59
242114	✦	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO	.89	.79	.69
242115	NSC	LM1117T-3.3/NOPB	TO-220/3	800mA, 3.3V, LDO	1.39	1.15	.85
2126230	TI	UC2833DW	SOIC-16	2V, 1A prec. LDO reg./controller	2.95	2.49	1.95
897188	NSC	LM2937ET-3.3	TO-220/3	500mA, 3.3V LDO, I-temp	1.59	1.29	1.05
297810	NSC	LM2937ET-5.0	TO-220/3	500mA, 5V LDO	1.59	1.25	1.05
107182	✦	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin)	1.49	1.29	1.05
192495	NSC	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin)	1.49	1.25	.95
837505	NSC	LM2940T-5.0/NOPB	TO-220/3	1A, 5V LDO, I-temp	1.39	1.19	1.05
121064	✦	LM2941CT	TO-220/5	1A LDO adjustable (45Vin)	1.59	1.35	.95
1944880	✦	LP2950ACN	TO-92/3	100mA 5V LDO reg.	.65	.55	.45
1323397	NSC	LP2950ACZ-3.3/NOPB	TO-92	3.3V µpwr volt. reg., I-temp	.89	.79	.69
266757	✦	LP2950CZ-5.0	TO-92/3	100mA low power LDO	.59	.49	.45
121110	✦	LP2951ACP	DIP-8	Adjustable µ power volt-reg.	.59	.49	.39
2126328	ALP	AS2954-3.3	TO-92/3	3.3V, 250mA output	1.95	1.75	1.59
2135671	✦	AS2954-5.0	TO-92/3	5.0V, 250mA LDO	.29	.25	.19
192524	✦	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V	1.65	1.45	1.25

★ **Power Drivers and Modules — Enter Web Code REK**

★ **Switching Regulators — Enter Web Code DEN**

Simple Switcher Voltage Regulators

★ Web Code: VAX

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10
156566	✦	LM2574N-5	DIP-8	5V step-down regulator	$1.59	$1.29
192381	NSC	LM2576HVT-5.0	TO-220/5	3A step down V-reg, high Vin range	4.95	4.49
192372	NSC	LM2576HVT-ADJ	TO-220/5	3A step down V-reg, high Vin range	4.49	3.95
245569	✦	LM2576T-5.0	TO-220/5	3A step-down voltage regulator	2.49	2.25
120977	✦	LM2576T-ADJ	TO-220/5	3A step-down voltage regulator	1.95	1.75

PLCC Thru-Hole Sockets

★ Web Code: YAH

- Solder tail allows thru-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)

71969

Part No.	Mfr.	Product No.	Pins	Body Height (in.)	1	10	100
71811	JVP	G1P32	32	.375	$.75	$.65	$.59
71618	✦	G1P444	44	.375	.75	.65	.59
72442	JVP	G1P452	52	.375	.85	.75	.69
71969	JVP	G1P468	68	.375	.89	.79	.75
71977	JVP	G1P484	84	.375	1.09	.95	.79

Single/Dual Wipe Solder Tail Low-Profile IC Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)

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112222
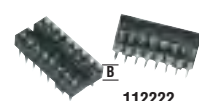
★ Web Code: WAP

Order in multiples of 10

Part No.	Mfr.	Product No.	Pins	Width (in.)	10	100	1000
112193	JVP	6LPD	6	0.3	$.14	$.11	$.10
51571	JVP	8LPD	8	0.3	.13	.10	.08
112206	JVP	8LPD	8	0.3	.14	.11	.09
37162	JVP	14LP (single wipe)	14	0.3	.13	.10	.09
112214	JVP	14LPD	14	0.3	.14	.11	.10
37372	JVP	16LP (single wipe)	16	0.3	.12	.10	.08
37373	✦	16LPD	16	0.3	.18	.12	.10
112222	✦	16LPD	16	0.3	.20	.13	.11
38113	JVP	18LP (single wipe)	18	0.3	.14	.12	.09
112231	JVP	18LPD	18	0.3	.17	.16	.12
38607	JVP	20LP (single wipe)	20	0.3	.14	.12	.10
112248	JVP	20LPD	20	0.3	.17	.16	.14
38608	JVP	20LPD	20	0.3	.18	.17	.15
112256	JVP	22SLPD	22	0.3	.18	.16	.14
39132	JVP	22LPD	22	0.4	.17	.16	.14
39378	JVP	24SLPD	24	0.3	.25	.23	.20
112282	JVP	24SLPD	24	0.3	.27	.25	.22
112264	JVP	24LPD	24	0.6	.24	.22	.18
112266	JVP	24LPD	24	0.6	.26	.22	.20
112299	JVP	28SLPD	28	0.3	.25	.23	.21
112300	JVP	28SLPD	28	0.3	.26	.24	.22
112272	JVP	28LPD	28	0.6	.25	.23	.20
40301	JVP	28LPD	28	0.6	.26	.24	.21
137621	JVP	32SLPD	32	0.3	.19	.15	.12
689979	✦	ED32DT	32	0.6	.15	.12	.09
112301	JVP	32LPD	32	0.6	.29	.25	.22
41110	JVP	40LP (single wipe)	40	0.6	.29	.25	.22
41111	JVP	40LPD	40	0.6	.33	.30	.26
112311	JVP	40LPD	40	0.6	.40	.36	.30

Semiconductors

AMP — DIP Low-Profile IC Sockets

Economy Ladder Style
- Dual wipe
- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating

683104 526205 683198

Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	Plating	Width (in.)	10	100	500
683091	1-390261-1	6	60µ" tin	0.3	$.14	$.13	$.11
526299	390261-2	8	60µ" tin	0.3	.12	.10	.08
683104	1-390261-2	8	60µ" tin	0.3	.13	.11	.09
526192	390261-3	14	60µ" tin	0.3	.16	.13	.11
683112	1-390261-3	14	60µ" tin	0.3	.17	.14	.12
526205	390261-4	16	60µ" tin	0.3	.17	.14	.12
683121	1-390261-4	16	60µ" tin	0.3	.18	.15	.13
526213	390261-5	18	60µ" tin	0.3	.16	.13	.11
683139	1-390261-5	18	60µ" tin	0.3	.17	.14	.12
526221	390261-6	20	60µ" tin	0.3	.16	.14	.13
683198	1-390262-1	24	60µ" tin	0.6	.25	.21	.20
526248	390261-9	28	60µ" tin	0.3	.29	.24	.20
683171	1-390261-9	28	60µ" tin	0.3	.31	.25	.21
526256	390262-2	28	60µ" tin	0.6	.27	.25	.21
526272	390262-5	40	60µ" tin	0.6	.37	.31	.27
683227	1-390262-5	40	60µ" tin	0.6	.39	.32	.28

Machine Tooled Solder Tail Low-Profile IC Sockets

- Contact plating: gold   • Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V$_{RMS}$
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Tin-plated leads
- Thru-hole lead length: .177" (A)   • Body height: .117" (B)

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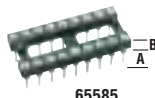
65585

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
167004	6MLP	6	0.3	$.39	$.29	$.19
51626	8MLP	8	0.3	.49	.45	.29
37197	14MLP	14	0.3	.65	.55	.39
37402	16MLP	16	0.3	.75	.59	.45
65585	18MLP	18	0.3	.89	.75	.55
38623	20MLP	20	0.3	.85	.69	.49
39386	24SMLP	24	0.3	.95	.79	.59
39387	24SMLP	24	0.3	.99	.85	.65
39351	24MLP	24	0.6	1.09	.89	.65
114412	28SMLP	28	0.3	1.09	.89	.65
40328	28MLP	28	0.6	1.19	.95	.69
40329	28MLP	28	0.6	1.25	.99	.75
105381	32MLP	32	0.6	1.35	1.09	.89
41136	40MLP	40	0.6	1.69	1.39	.95
42059	48MLP	48	0.6	1.25	.99	.75

JDV — Wire Wrap IC Socket I.D. Markers

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping

37145 38586

Part No.	✱Mfr.	Product No.	Pins	Width (in.)	1	10	100
37145	JVP	ID-14-100	14	0.3	$.69	$.59	$.45
38586	JDV	ID-20-50	20	0.3	.95	.75	.49

★Transistors — Enter Web Code FEN

.100" Single-In-Line Machine Tooled Strip Sockets

- Solder tail or wire wrap

JAMECO ValuePro

78642 104054

Part No.	Description	Pins	Lead Length (in.)	1	10	100
164822	Straight single row	4	.160	$.75	$.65	$.59
138684	Straight single row	5	.160	.59	.49	.39
2100339	Straight single row	7	.160	.59	.49	.35
102201	Straight single row	10	.160	1.19	.95	.75
2125675	Straight single row	14	.160	.89	.69	.49
78642	Straight single row	30	.160	1.49	1.29	.95
175920	Straight single row	36	.160	1.75	1.59	1.29
101283	WW2 single row	20	.435 (2)	2.49	2.25	1.95
104054	WW3 single row	30	.575 (3)	2.95	2.75	2.49

✱ Manufacturer: Adam Tech

3 Level Machine Tooled Wire Wrap IC Sockets

JAMECO ValuePro

- Contact plating: gold
- Sleeve material: brass
- Contact resis.: less than 5m   • Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstanding voltage: 300V$_{RMS}$
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A)   • Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
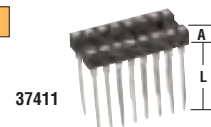
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Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
94474	8MSWW3	8	0.3	$1.49	$1.35	$1.19
62051	14MSWW3	14	0.3	1.75	1.55	1.39
37411	16MSWW3	16	0.3	2.25	1.95	1.75
94482	18MSWW3	18	0.3	2.49	2.25	1.95
38632	20MSWW3	20	0.3	2.49	2.25	1.95
105372	24SMSWW3	24	0.3	2.75	2.49	2.25
94491	24MSWW3	24	0.6	2.95	2.75	2.49
200716	283MSWW3	28	0.3	3.25	2.95	2.75
40337	28MSWW3	28	0.6	3.95	3.49	3.25
94503	40MSWW3	40	0.6	4.95	4.49	3.95

2 & 3 Level Wire Wrap IC Sockets

- Contact plating/leads: tin (TWW); dual wipe
- Contact current: 1A   • Contact resistance: <5mΩ
- Sleeve material: brass
- Dielectric withstanding volt.: 300V
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Thru-hole lead length: .438" (L2); .638" (L3)   • Body height: .300" (A)

CA

196841

Part No.	✱Mfr.	Product No.	Pins	Width (in.)	1	10	100
196841	JVP	14TWW3	14	0.3	$1.49	$1.25	$.95
37437	CA	16TWW2	16	0.3	2.95	2.75	2.49
75416	CA	24TWW2	24	0.6	1.49	1.25	.95

Machine Contact Dual-In-Line Female Sockets

- 0.100" centers   • Pin sleeve: tin
- Solder tail contact: .114"L
- Contact clip: gold

JAMECO ValuePro

212856

Part No.	Cross Ref. No.	Pins	1	10	100
212856	SA101000	10	$.95	$.85	$.75
212936	SA481000	48	1.09	.99	.89

SIMM Vertical Socket

JAMECO ValuePro

- Locking tabs   • Tinned contacts
- Memory module sockets   • Keyed mounting posts

Part No.	✱Mfr.	Cross Ref. No.	Description	1	10	100
100302	JVP	2000-1X30S	Single x 30-pin, vertical	$1.49	$1.35	$1.19

✱ CA = Circuit Assembly | JDV = JDV Products Inc. | JVP = Jameco ValuePro

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Semiconductors

ST | ON Semiconductor | FAIRCHILD | VISHAY | MOTOROLA | NTE | JME

Low Profile ZIF Sockets
★ Web Code: UBX

Series 526
- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max. • Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035"Dia. (0.89mm)

102745
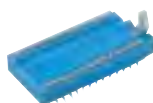
Part No.	Mfr. Part No.	Pins	Size (L" x W")	1	5	25
296789	24-526-10	24	1.45 x .75	$8.25	$7.75	$7.25
102745	28-526-10	28	1.64 x .75	8.95	7.95	6.95
102753	40-526-10	40	2.24 x .75	9.95	8.95	7.95

High Temp. Universal ZIF Test Sockets

Series 6554
- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature:
  -10: 221°F (105°C) – tin plating
  -11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS • Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600" • Insulation resistance: 1000MΩ
- Contact current: 1A • Dielectric withstanding voltage: 1000VAC

★ Web Code: AAN

104012

Part No.	Mfr. Part No.	Pins	Size (L" x W")	1	5	25
103992	24-6554-10	24	1.8 x 0.9	$8.95	$8.25	$7.49
104003	28-6554-10	28	2.0 x 0.9	9.95	8.95	7.95
104012	32-6554-10	32	2.1 x 0.9	9.95	8.95	7.95
104030	40-6554-10	40	2.5 x 0.9	11.95	10.95	9.95
295233	40-6554-11	40	2.0 x 0.9	17.95	16.95	—

SOIC/SOJ to DIP Adapters
★ Web Code: YBS

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins with 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028"Dia. (0.71mm)
- Center pins: 0.300" (7.62mm)

291515

Part No.	Mfr. Part No.	Pins	Size (L" x W")	1	10	100
291208	08-350000-11RC	8	.400 x .46	$6.95	$6.29	$5.69
291515	16-350000-11RC	16	.800 x .45	7.49	6.75	5.59

Transistors
★ Web Code: FEN

✳ Order in multiples of 10

Part No.	⊛Mfr.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	1	10	100
26462	✦	MPSA06	TO-92	NPN	80	100k @ .01A	✳	$.12	$.10
26489	✦	MPSA13*	TO-92	NPN	30	5k @ .01A	✳	.12	.10
210593	✦	MPSA14	TO-92	NPN	30	20k @ .10A	✳	.19	.15
210681	✦	MPSA18*	TO-92	NPN	45	500 @ .001A	✳	.15	.12
33021	✦	TIP29A	TO-220	NPN	60	15 @ 1A	.39	.35	.25
33048	✦	TIP31A*	TO-220	NPN	60	10 @ 3A	.39	.35	.25
179354	FSC	TIP31C	TO-220	NPN	100	10 @ 3A	.39	.35	.25
890568	ST	TIP35C	TO-247	NPN	100	25 @ 1.5A	1.59	1.35	1.15
33081	✦	TIP41A	TO-220	NPN	60	15 @ 3A	.49	.39	.29
179371	✦	TIP41C	TO-220	NPN	100	15 @ 3A	.49	.39	.29
178546	✦	MPSA42	TO-92	NPN	30	40 @ .03A	✳	.15	.12
32977	✦	TIP102*	TO-220	NPN	100	1k @ 3A	.49	.45	.39
32993	✦	TIP120*	TO-220	NPN	60	1k @ 3A	.39	.35	.29
32994	✦	TIP120	TO-220	NPN	60	1k @ 3A	.49	.45	.39
179291	FSC	TIP120	TO-220	NPN	60	1k @ 3A	.59	.49	.39
120416	✦	TIP122	TO-220	NPN	100	1k @ 3A	.59	.49	.39
179303	FSC	TIP122	TO-220	NPN	100	1k @ 3A	.65	.55	.45
260558	NTE	NTE123AP	TO-92	NPN	40	40 @ .001A	1.49	1.25	1.09

*10 pcs. in Transistor cabinet kit, pg 15

Transistors (Continued)
★ Web Code: FEN

✳ Order in multiples of 10

Part No.	⊛Mfr.	Product No.	Pkg.	Desc.	V_{CEO}	Min. (h_{FE} @ Ic)	1	10	100
890445	ST	TIP142	TO-218	NPN	100	1k @ 0.5A	$1.59	$1.35	$1.09
2132293	✦	BD158	TO-126	NPN	300	30 @ .05A	.29	.25	.19
254810	✦	BC337	TO-92	NPN	45	100 @ .10A	✳	.15	.12
254801	✦	BC547B	TO-92	NPN	45	330 @ .002A	✳	.12	.09
254799	✦	BC547C	TO-92	NPN	45	600 @ .002A	✳	.10	.08
254781	✦	BC548B	TO-92	NPN	30	110 @ .002A	✳	.10	.08
800568	MOT	MPS918	TO-92	NPN	15	20 @ .003A	✳	.15	.12
38228	✦	2N2219A	TO-39	NPN	40	100 @ .15A	.79	.69	.59
26446	✦	MPQ2222	DIP-14	NPN	40	100 @ .15A	2.95	2.75	2.49
28628	✦	PN2222**	TO-92	NPN	30	100 @ .15A	✳	.10	.07
38236	✦	2N2222A*	TO-18	NPN	40	100 @ .15A	.79	.69	.59
38237	✦	2N2222A	TO-18	NPN	40	100 @ .15A	.89	.79	.69
213938	✦	MMBT2222A	SOT-23	NPN	40	100 @ .15A	✳	.10	.07
210673	✦	MPS2222A	TO-92	NPN	40	40 @ .50A	✳	.15	.12
178511	✦	PN2222A	TO-92	NPN	40	100 @ .15A	✳	.12	.10
178512	✦	PN2222A	TO-92	NPN	40	100 @ .15A	✳	.15	.12
787536	FSC	PN2222ABU	TO-92	NPN	40	300 @ .15A	✳	.05	.04
38295	✦	2N3053*	TO-39	NPN	40	25 @ .15A	.89	.79	.69
38308	✦	2N3055+*	TO-3	NPN	60	15 @ 10A	1.19	1.09	.99
211406	✦	2N3055A	TO-3	NPN	60	20 @ 4A	2.49	2.25	1.95
211385	✦	TIP3055	TO-218	NPN	60	5 @ .001A	1.29	1.15	.95
25857	✦	MJE3055T	TO-220	NPN	60	20 @ 4A	.65	.55	.45
209242	✦	2N3771	TO-3	NPN	40	15 @ 15A	2.25	1.95	1.75
38359	✦	2N3904**	TO-92	NPN	40	100 @ .01A	✳	.10	.08
38360	✦	2N3904	TO-92	NPN	40	100 @ .01A	✳	.12	.10
178597	FSC	2N3904	TO-92	NPN	40	100 @ .01A	✳	.12	.10
783421	FSC	2N3904BU	TO-92	NPN	40	100 @ .01A	✳	.09	.07
94967	✦	MMBT3904	SOT-23	NPN	40	100 @ .01A	✳	.09	.07
38421	✦	2N4401*	TO-92	NPN	40	100 @ .15A	✳	.10	.07
783498	FSC	2N4401TA	TO-92	NPN	40	20 @ .1mA	✳	.10	.07
62316	✦	2N5088	TO-92	NPN	30	300 @ .05A	.35	.29	.19
140373	✦	2N5179	TO-72	NPN	12	25 @ .003A	2.95	2.59	2.25
1945081	FSC	2N5306	TO-92	NPN	25	7000 @ .002A	✳	.09	.069
2158979	✦	2N6284	TO-3/2	NPN	100	750 @ 10A	2.95	2.59	2.29
924300	ST	2N6284	TO-3/2	NPN	100	750 @ 10A	3.95	3.49	2.95
194618	✦	2N6547	TO-3	NPN	400	12 @ 5A	3.95	3.49	2.95
194626	✦	2N6678	TO-3	NPN	400	8 @ 15A	6.95	6.25	5.59
33030	✦	TIP30A	TO-220	PNP	60	15 @ 1A	.59	.49	.39
33064	✦	TIP32A*	TO-220	PNP	60	10 @ 3A	.39	.35	.25
181841	✦	TIP32C	TO-220	PNP	100	10 @ 3A	.39	.35	.25
890592	ST	TIP36C	TO-218	PNP	100	25 @ 1.5A	1.49	1.35	1.19
33101	✦	TIP42A	TO-220	PNP	60	15 @ 3A	.49	.45	.35
139580	✦	TIP42C	TO-220	PNP	100	15 @ 3A	.49	.39	.29
179258	✦	TIP107	TO-220	PNP	100	1k @ 3A	.59	.49	.35
288526	✦	TIP115	TO-220	PNP	60	1k @ 1A	.49	.39	.29
33013	✦	TIP125	TO-220	PNP	60	1k @ 3A	.49	.39	.29
179320	✦	TIP127	TO-220	PNP	100	1k @ 3A	.49	.39	.29
890488	ST	TIP147	TO-218	PNP	100	1k @ 5A	1.95	1.59	1.29
260611	NTE	NTE159	TO-92	PNP	80	50 @ .01A	1.49	1.25	1.09
1215986	✦	BC327	TO-92	PNP	45	100 @ .10A	✳	.12	.10
2169521	ON	BC557CG	TO-92	PNP	-45	800 @ -2A	✳	.15	.10
2125456	MEC	MH810	TO-220	PNP	30	240 @ .5A	✳	.19	.15
194378	✦	2N2905A	TO-39/3	PNP	60	100 @ .15A	.89	.79	.65
28644	✦	PN2907**	TO-92	PNP	40	100 @ .15A	✳	.10	.07
211342	✦	MPS2907A	TO-92	PNP	60	100 @ .15A	✳	.19	.15
178520	✦	PN2907A	TO-92	PNP	60	100 @ .15A	✳	.09	.07
38279	✦	2N2907A*	TO-18	PNP	60	100 @ .15A	.69	.59	.49
211502	✦	MJ2955	TO-3	PNP	60	20 @ 4A	1.29	1.19	1.09
25831	✦	MJE2955T	TO-220	PNP	60	20 @ 4A	.45	.39	.35

*10 pcs./**100 pcs. in Transistor cabinet kit, pg 15

Transistors (Continued)

✳ Order in multiples of 10

Part No.	✳Mfr.	Product No.	Pkg.	Desc.	V$_{CEO}$	Min. (h$_{FE}$ @ Ic)	1	10	100
38375	✦	2N3906**	TO-92	PNP	40	100 @ .01A .... ✳		$.099	$.069
178618	FSC	2N3906	TO-92	PNP	40	100 @ .01A .... ✳		.12	.099
1944951	✦	PN4355	TO-92	PNP	60	5 @ .05A	.25	.19	.16
38447	✦	2N4403*	TO-92	PNP	40	100 @ .15A .... ✳		.099	.069
210649	✦	2N5401*	TO-92	PNP	150	60 @ .01A .... ✳		.13	.11
261121	NTE	NTE6410	TO-92	PNP	30	— 5.95	5.49	4.95

*10 pcs./**100 pcs. in Transistor cabinet kit, below

Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611, pg 139) and 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5401, 2N7000, MJE3055T, MPSA18, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120
100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	5
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	$69.95	$59.95
130374	Refill for 82595 (560 pcs.)	0.4	54.95	49.95

J-FETs

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Channel	BV$_{GS}$ @ IG(µA)	I$_{DSS}$ (mA) @ V$_{DS}$	1	10	100
26403	MPF102	TO-92	N	-25 @ -10	2 @ 15	$1.49	$1.35	$1.19
210622	2N3819	TO-92	N	-25 @ -1	20 @ 15	.69	.59	.49
253948	2N5457	TO-92	N	-25 @ -10	1 @ 15	.89	.79	.69
253921	2N5458	TO-92	N	-25 @ -10	2 @ 15	.89	.79	.69
253577	2N5486	TO-92	N	-25 @ -1	8 @ 15	.99	.89	.79
38527	2N5951	TO-92	N	-30 @ -1	7 @ 15	.89	.79	.69
2159699	U1898	TO-92	N	-40 @ 50	20 @ 15	.39	.25	.15
253913	2N5460	TO-92	P	40 @ 10	-1 @ -15	.85	.75	.65
253905	2N5461	TO-92	P	40 @ 10	-2 @ 15	.79	.69	.59

IR Hexfet Power MOSFETs

Part No.	Mfr. Part No.	Pkg.	Channel	BV$_{DS}$	Min. On-St. Drain Source	1	10	100
1563147	IRFZ44NPBF	TO-220AB	N	55	49A	$1.35	$1.15	$.95
1560051	IRF540NPBF	TO-220AB	N	100	33A	1.45	1.15	.85
1559965	IRF5305PBF	TO-220AB	P	-55	-31A	1.39	.99	.79

N-Channel & P-Channel MOSFETs

✳ Order in multiples of 10

Part No.	✳Mfr.	Product No.	Pkg.	Channel	BV$_{DS}$	Min. On-St. Drain Source	1	10	100
812391	ST	STP80NF03L-04	TO-220	N	30	80A	$1.95	$1.75	$1.49
669871	✦	IRFZ24N	TO-220AB	N	55	17A	.89	.79	.59
669935	✦	IRFZ34N	TO-220AB	N	55	26A	1.09	.89	.69
669943	✦	IRLZ34N	TO-220AB	N	55	30A	1.09	.89	.69
669951	✦	IRFZ44N	TO-220AB	N	55	49A	1.25	1.05	.85
669978	✦	IRFZ46N	TO-220AB	N	55	53A	1.29	.99	.79
669986	✦	IRFZ48N	TO-220AB	N	55	64A	1.39	1.15	.89
256031	✦	BS170	TO-92	N	60	0.5A (max.) .... ✳		.15	.12
1217519	FSC	BS170	TO-92	N	60	0.5A (max.) .... ✳		.19	.15
670098	✦	IRFP250N	TO-247	N	200	30A	1.95	1.49	1.29
670101	✦	IRFP260N	TO-247	N	200	50A	3.49	2.55	2.09
670135	✦	IRFP450	TO-247	N	500	14A	2.75	2.25	1.95
670143	✦	IRFP460	TO-247	N	500	20A	2.95	2.75	2.49
209234	✦	IRF510	TO-220	N	100	5.6A	.79	.69	.59
1559885	INR	IRF510PBF	TO-220	N	100	5.6A	.89	.79	.69
209226	✦	IRF520	TO-220	N	100	10A	.69	.59	.49
1559906	INR	IRF520PBF	TO-220	N	100	10A	.79	.69	.59
209058	✦	IRL520	TO-220	N	100	9.2A	.89	.79	.69
210500	✦	IRF530	TO-220	N	100	14A	.79	.69	.59

N-Channel & P-Channel MOSFETs (Cont.)

✳ Order in multiples of 10

Part No.	✳Mfr.	Product No.	Pkg.	Channel	BV$_{DS}$	Min. On-St. Drain Source	1	10	100
670151	✦	IRF530N	TO-220AB	N	100	17A	$.95	$.85	$.65
670160	✦	IRL530N	TO-220AB	N	100	17A	.95	.85	.65
210518	✦	IRF540	TO-220	N	100	27A	.89	.79	.69
670194	✦	IRL540N	TO-220AB	N	100	36A	1.39	1.09	.95
210526	✦	IRF620	TO-220	N	200	6.0A	.59	.49	.39
210534	✦	IRF630	TO-220	N	200	9.0A	.59	.49	.45
210542	✦	IRF640	TO-220	N	200	18A	1.09	.99	.79
670231	✦	IRF644	TO-220AB	N	250	14A	1.29	1.15	.89
210551	✦	IRF730	TO-220	N	400	5.5A	.89	.79	.69
210569	✦	IRF740	TO-220	N	400	10A	.99	.89	.79
210577	✦	IRF820	TO-220	N	500	4.0A	.89	.79	.69
210585	✦	IRF830	TO-220	N	500	4.5A	.89	.79	.69
184719	✦	IRF840	TO-220	N	500	8.0A	.85	.75	.65
2217852	✦	BUZ77A	TO-220	N	600	2.7A	.79	.69	.59
2217861	✦	BUZ78	TO-220AB	N	800	1.5A	.89	.79	.69
787798	FSC	RFP12N10L	TO-220AB	N	100	12A	.65	.59	.55
670282	✦	IRF1405	TO-220AB	N	55	169A	2.75	2.25	1.69
279460	✦	VN2222LL	TO-92	N	60	0.15A	.29	.25	.15
874875	FSC	NDT3055L	SOT-223	N	60	4A	.39	.29	.19
618089	✦	IRF3205	TO-220AB	N	55	110A	1.75	1.45	1.25
785590	FSC	FQP50N06	TO-220	N	60	50A	.99	.89	.75
875051	FSC	RFP50N06	TO-220AB	N	60	50A	1.09	.95	.85
119423	✦	2N7000	TO-92	N	60	0.3A .... ✳		.07	.05
178669	FSC	2N7000*	TO-92	N	60	0.2A .... ✳		.08	.06
783594	FSC	2N7000	TO-92	N	60	0.2A .... ✳		.15	.12
256057	✦	BS250	TO-92	P	-45	0.25A (max.)	.75	.65	.55
1944901	✦	ZVP3306A	TO-92	P	-60	-0.16A†	.55	.45	.35
670442	✦	IRF4905	TO-220AB	P	-55	-74A	1.85	1.49	1.35
1559851	INR	IRF4905PBF	TO-220AB	P	-55	-74A	1.95	1.55	1.39
670477	✦	IRF5210	TO-220AB	P	-100	-40A	1.39	1.29	1.19
670485	✦	IRF5305	TO-220AB	P	-55	-31A	1.09	.95	.75
670581	✦	IRF9Z34N	TO-220AB	P	-55	-19A	1.09	.99	.75
670629	✦	IRF9520	TO-220AB	P	-100	-6A	.85	.69	.59
670741	✦	IRF9530	TO-220AB	P	-100	-12A	1.19	1.09	.95
670637	✦	IRF9530N	TO-220AB	P	-100	-14A	1.19	.89	.75
670645	✦	IRF9540N	TO-220AB	P	-100	-23A	1.49	1.19	.95
670653	✦	IRF9640	TO-220AB	P	-200	-11A	1.39	1.19	.95

*10 pcs. in Transistor cabinet kit, above left   † DMOS FET

Small Signal Diodes

Order in multiples of 10

Part No.	✳Mfr.	Product No.	Pkg.	Description	10	100	1000
36311	✦	1N914**	DO-35	75PRV, 0.01A	$.05	$.02	$.015
179207	VSH	1N914-TR	DO-35	100PRV	.05	.03	.02
655269	✦	1N914A	DO-35	100V$_{RRM}$, 0.2A	.05	.03	.02

**100 pcs. in Diode/Rectifier cabinet kit, page 16

★Transient Voltage Suppressors — Enter Web Code QBQ

Diodes

✳ Order in multiples of 10

Part No.	✳Mfr.	Product No.	Pkg.	Description	1	10	100
1559164	INR	HFA08TB60PBF	TO-220AC	600VBR, 8A (Ultrafast)	$1.95	$1.75	$1.49
35941	✦	1N270*	DO-7	80PRV (Germanium)	.99	.89	.79
312101	✦	MBR1100	DO-41	100PRV, 1.0A (Schottky)	.25	.22	.19
743285	FSC	1N4148	DO-35	75PRV, 0.01A (Switching) .... ✳		.06	.03
36038	✦	1N4148**	DO-35	75PRV, 0.01A (Switching) .... ✳		.05	.02
151247	✦	1N4148T	DO-35	75PRV, 0.01A (tape/reel) .... ✳		.05	.02
179215	VSH	1N4148	DO-35	100PRV (Switching) .... ✳		.05	.02
656042	✦	1N4150	DO-35	75BV, 0.4A (Ultrafast)	.08	.06	
743710	ST	1N6263	DO-35	60V$_{RRM}$, 50mA (Schottky) .... ✳		.15	.12
1558946	INR	80SQ045	DO-204	40V$_{RRM}$, 8A (Schottky)	1.39	1.29	1.09

*10 pcs./**100 pcs. in Diode/Rectifier cabinet kit, pg 16

✳ FSC = Fairchild Semi | INR = International Rectifier | NTE = NTE | ST = ST Micro | VSH = Vishay Technology | ✦ Major Brands

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Semiconductors
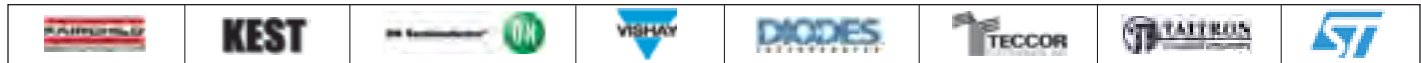
Zener Diodes ★ Web Code: LAF

※ Order in multiples of 10

Part No.	⁕Mfr.	Product No.	Pkg.	V_Znom	Pwr Dissipation	1	10	100
36290	✦	1N751A	DO-35	5.1V	0.5W	※	$.07	$.05
178773	VSH	1N4732A	DO-41	4.7V	1W	※	.10	.08
36097	✦	1N4733A*	DO-41	5.1V	1W	※	.06	.05
36118	✦	1N4734A	DO-41	5.6V	1W	※	.06	.05
36126	✦	1N4735A	DO-41	6.2V	1W	※	.06	.05
178837	✦	1N4739A	DO-41	9.1V	1W	※	.06	.05
36169	✦	1N4742A*	DO-41	12V	1W	※	.05	.04
36185	✦	1N4744A	DO-41	15V	1W	※	.07	.05
782922	FSC	1N4749AT/R	DO-41	24V	1W	※	.19	.15
179004	✦	1N5225B	DO-35	3.0V	0.5W	※	.10	.06
743488	FSC	1N5226B	DO-35	3.3V	0.5W	※	.05	.03
179039	✦	1N5230B	DO-35	4.7V	0.5W	※	.12	.10
179047	✦	1N5231B	DO-35	5.1V	0.5W	※	.09	.07
804818	ON	1N5352BG	Surmetic-40	15V	5W	.39	.29	.19
804914	ON	1N5359BG	Surmetic-40	24V	5W	.35	.25	.19

*10 pcs. in Diode/Rectifier cabinet kit, below

Diode/Rectifier Assortment Cabinet Kit ★ Web Code: CKS

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 139 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	5
82587	420 pcs. (15 types) diode kit	5.0	$44.95	$39.95
130366	Refill for 82587 (420 pcs.)	0.3	29.95	26.95

Triacs ★ Web Code: PAE

Part No.	⁕Mfr.	Product No.	Pkg.	Rating	1	10	100
160098	✦	HT-32	DO-35	27.37 V_BO, 2A	$.35	$.29	$.25
31819	✦	SC146B	TO-220	200 V_DRM, 10A (2N6342)	1.85	1.65	1.55
31827	✦	SC146M	TO-220	600 V_DRM, 10A (2N6344)	1.95	1.75	1.49
1165690	BNS	TIC201M	TO-220	600 V_DRM, 2.5A	.49	.39	.25
160207	TEC	Q4008L4	TO-220AB	400 V_DRM, 8A	1.49	1.35	1.19
220492	TEC	Q4008R4	TO-220AB	400 V_DRM, 8A	.99	.89	.69
139336	TEC	Q4015L5	TO-220AB	400 V_DRM, 15A	1.75	1.49	1.29
160215	TEC	Q6008L5	TO-220AB	600 V_DRM, 8A	1.75	1.49	1.35
160231	TEC	Q6015L5	TO-220AB	600 V_DRM, 15A	2.25	1.95	1.75
220505	TEC	Q6025R6	TO-220AB	600 V_DRM, 25A	2.75	2.49	2.25
2034010	ST	BTA12-600BWRG	TO-220AB	600 V_DRM, 30A	1.49	1.19	.95
220521	TEC	Q6035P5	TO-3	600 V_DRM, 35A	5.95	5.25	4.49
140425	✦	2N6071A	TO-225AA	200 V_DRM, 4A	.59	.55	.45

SanRex® Fast-On Package Triac

Part No.	Mfr. Part No.†	Pkg.	Rating (X_DRM, I_T(RMS))	1	10	100
658275	TG35F60	Fast-On	Isolated 35A, 600V	$8.95	$7.95	$6.95

† For cross-references to Littelfuse, ST, and ON Semi products refer to datasheets @ Jameco.com.

Rectifiers ★ Web Code: LBD

Part No.	⁕Mfr.	Product No.	Pkg.	Rating	1	10	100	1000
177754	TAT	T6A05L	T6L	50 PIV, 6A	$.39	$.35	$.29	$.25
177762	TAT	T6A10L	T6L	100 PIV, 6A	.49	.45	.39	.35
177818	TAT	T6A100L	T6L	1000 PIV, 6A	.69	.59	.49	.45
2126011	DDI	SR506-T	DO-201AD	60 PRV, 5A (Schottky)	.39	.29	.25	.19

Rectifiers (Continued) ★ Web Code: LBD

※ Order in multiples of 10

Part No.	⁕Mfr.	Product No.	Pkg.	Rating	1	10	100	1000
35924	✦	1N1188	DO-5	400 PRV, 35A	$4.25	$3.75	$3.35	$3.15
2197610	KST	1N1190A	DO-5	600 PRV, 40A	5.95	5.35	4.79	4.29
2197628	KST	1N1190RA†	DO-5	600 PRV, 40A	4.95	4.49	3.95	3.59
618097	✦	MBR2535CT	TO-220	35 VRPM, 30A	.69	.59	.49	.39
35975	✦	1N4001*	DO-41	50 PRV, 1A	※	.05	.02	.015
76961	✦	1N4002	DO-41	100 PRV, 1A	※	.05	.02	.015
76970	✦	1N4003	DO-41	200 PRV, 1A	※	.05	.02	.015
35991	✦	1N4004**	DO-41	400 PRV, 1A	※	.05	.02	.015
76988	✦	1N4005	DO-41	600 PRV, 1A	※	.05	.03	.02
76996	✦	1N4006	DO-41	800 PRV, 1A	※	.09	.06	.03
36011	✦	1N4007*	DO-41	1000 PRV, 1A	※	.05	.02	.015
36012	✦	1N4007	DO-41	1000 PRV, 1A	※	.05	.02	.015
1537951	DDI	1N4007-T	DO-41	1000 V_RRM, 1A	※	.06	.05	.03
274811	SGS	HYT11-600	DO-41	1000V, 1A	.39	.35	.29	.19
36249	✦	1N5401	DO-201AD	100 PIV, 3A	※	.12	.10	.08
77083	✦	1N5402	DO-27A	200 PRV, 3A	※	.14	.12	.10
36265	✦	1N5404*	DO-27A	400 PRV, 3A	※	.12	.10	.08
36273	✦	1N5408*	DO-27A	1000 PRV, 3A	※	.12	.10	.08
36274	✦	1N5408	DO-27A	1000 PRV, 3A	※	.13	.11	.09
177949	✦	1N5817	DO-204AL	20 PIV, 1A	※	.14	.12	.10
177957	✦	1N5818	DO-204AL	30 PIV, 1A	※	.14	.12	.10
177965	✦	1N5819	DO-204AL	40 PIV, 1A	※	.14	.12	.10
177973	✦	1N5820	DO-201AD	20 PIV, 3A	※	.09	.05	.04
177981	✦	1N5821	DO-201AD	30 PIV, 3A	※	.14	.12	.10
177990	✦	1N5822	DO-201AD	40 PIV, 3A	※	.16	.14	.12
2138804	✦	1T2	DO-41	100 V_RRM, 1A	※	.04	.03	.02
2126310	ST	BYW80-50	TO-220AC	50 PIV, 8A	.29	.19	.15	.09

*10 pcs./ **100 pcs. in Diode/Rectifier cabinet kit, left   †Reverse polarity

Bridge Rectifiers ★ Web Code: MBD

Part No.	⁕Mfr.	Product No.	Pkg.	Rating	1	10	100
178001	✦	DF005M	DF	50 V_RRM, 1A	$.29	$.25	$.22
103000	✦	DF01M	DF	100 V_RRM, 1A	.29	.25	.22
103042	✦	DF02M	DF	200 V_RRM, 1A	.29	.25	.22
102971	✦	DF04M	DF	400 V_RRM, 1A	.35	.29	.25
103034	✦	DF06M	DF	600 V_RRM, 1A	.35	.29	.25
103026	✦	DF10M	DF	1000 V_RRM, 1A	.35	.29	.25
145429	✦	KBP02M	KBP	200 V_RRM, 1.5A	.25	.19	.12
119562	✦	KBP04M*	KBP	400 V_RRM, 1.5A	.49	.45	.39
103018	✦	W02G	W0G	200 V_RRM, 1.5A	.35	.29	.25
102980	✦	W04G	W0G	400 V_RRM, 1.5A	.35	.29	.25
178132	✦	W01M	W0M	100 V_RRM, 1.5A	.25	.22	.19
178141	✦	W02M	W0M	200 V_RRM, 1.5A	.29	.25	.22
178183	TAT	BR805D	BR8D	50 PIV, 2A	.49	.45	.39
678137	✦	2KBP04M	KBP	400 V_RRM, 2A	.35	.29	.25
253260	✦	2KBP06M	KBP	600 V_RRM, 2A	.45	.35	.29
253286	✦	2KBP10M	KBP	1000 V_RRM, 2A	.45	.35	.29
1541466	DDI	RS405L	RS-4L	600 V_RRM, 4A	.89	.79	.69
1545416	✦	KBU8B	KBU	100 V_RRM, 8A	1.39	1.19	.95
2138871	✦	GBU4J	GBU	600 V_RRM, 4A	.49	.45	.35
2126133	✦	SBU8J	SBU	600 V_RRM, 8A	1.25	1.09	.95
299874	✦	GBPC1206	GBPC (screw)	600 V_RRM, 12A	1.95	1.75	1.49
299866	✦	GBPC1206W	GBPC-W (wire)	600 V_RRM, 12A	1.49	1.25	.99
2132242	✦	GBPC1208W	GBPC-W (wire)	800 V_RRM, 12A	.99	.89	.69
179477	✦	GBPC25-01	GBPC	100 V_RRM, 25A	2.25	1.95	1.75
179485	✦	GBPC25-02	GBPC	200 V_RRM, 25A	2.39	2.09	1.75
178280	✦	MB254	MB35	400 V_RRM, 25A	2.75	2.49	2.25

*10 pcs. in Diode/Rectifier cabinet kit, above left

⁕ BNS = Bourns Inc. | DDI = Diode Inc. | FSC = Fairchild Semi | KST = KEST | ON = ON Semi | SGS = SGS Thomson | ST = ST Micro | TAT = Taitron | TEC = Teccor Elec. | VSH = Vishay | ✦ Major Brands

Semiconductors

Bridge Rectifiers (Continued)

Part No.	⊛Mfr.	Product No.	Pkg.	Rating	1	10	100
178431	✦	MB358	MB35	800 V$_{RRM}$, 35A	$2.95	$2.75	$2.49
25574	✦	MDA990-3	179-01	200 PIV, 30A	3.95	3.75	3.49
25591	✦	MDA990-6	179-01	600 PIV, 30A	3.95	3.75	3.49
178503	TAT	TB3510	TB35	1000 PIV, 35A	3.49	3.25	2.95

Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	$3.95	$3.59	$3.25
34139	TO-3	12 pcs per kit	3.95	3.59	3.25

34121   34139
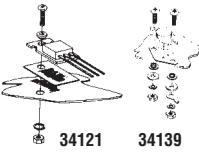
Silicon Controlled Rectifiers (SCRs)

※ Order in multiples of 10

Part No.	⊛Mfr.	Product No.	Pkg.	Rating	1	10	100
14859	✦	C38M	TO-65	600 PRV, 35A (2N3899)	$6.95	$6.25	$5.49
14736	✦	C106B1*	TO-202	200 PRV, 4A (2N6239)†	.69	.59	.49
14752	✦	C122B	TO-220	200 PRV, 8A	1.39	1.25	1.09
14761	✦	C122M	TO-220	600 PRV, 8A	1.35	1.25	1.05
160119	✦	T106D1	TO-202AB	400 PRV, 4A	.59	.49	.45
119802	✦	2N5060	TO-92	25 PRV, 0.8A	.29	.25	.19
211422	✦	2N5061	TO-92	60 PRV, 0.8A	※	.19	.15
160135	TEC	S6025L	TO-220AB	600 V$_{DRM}$, 25A	1.75	1.59	1.45
806063	ON	2N6027G	TO-92	40 V, 0.15A	.29	.19	.17
140417	✦	2N6507	TO-220AB	400 PRV, 25A	1.35	1.09	.89
885654	ON	2N6509	TO-220AB	800 V$_{DRM}$, 25A	1.29	1.15	.95

†Isolated   *10 pcs. in Diode/Rectifier cabinet kit, pg 16

JAMECO ValuePro   AAVID THERMALLOY

Heat Sinks

NEW MARKED IN PINK

- Material: black anodized aluminum
- P/N 42622 can be mounted vertically with solderable mounting tabs

Part No.	⊛Mfr.	Product No.	Fig.	Type	Holes	Size (L" x W" x H")	1	10	100
2150942	AVD	9000000958	1	CPU	0	1.78 x 1.19 x 0.65	$1.39	$1.29	$1.15
2077335	AVD	501200B00	2	DIP-14/16	0	0.73 x 0.25 x 0.19	.49	.45	.39
1115900	AVD	580200B00000G	3	DIP-14/16	0	0.84 x 0.60 x 0.41	.79	.69	.59
2150934	JVP	205-00036-001	2	DIP-14/16	0	1.18 x 0.64 x 0.65	.69	.59	.39
2202052	JVP	630-160	4	TO-3	4	1.60 x 1.32 x 1.00	.89	.79	.69
151547	JVP	635-125B2	5	TO-3	4	1.80 x 1.80 x 1.25	1.49	1.25	1.09
2202044	JVP	635-180	5	TO-3	4	1.80 x 1.80 x 1.25	.79	.69	.59
189835	AVD	501303B00000G	5	TO-3	4	1.90 x 1.40 x 0.50	1.09	.99	.89
2215486	AVD	568203B00000G	6	TO-3	4	1.80 x 1.80 x 1.25	1.49	1.35	1.15
16513	JVP	DUDE4	7	TO-3	4	4.75 x 1.50 x 1.25	3.75	3.25	2.75
2145086	AVD	322605B00000G	8	TO-5	1	0.75 x 0.75 x 0.236	.99	.89	.75
2202028	JVP	529801	9	TO-218	1	1.38 x 0.50 x 1.00	1.25	1.09	.99
326757	JVP	529801B02500	9	TO-218	3	1.64 x 1.00 x 1.50	1.49	1.35	1.15
326693	JVP	531002B05200	9	TO-220	2	1.38 x 0.50 x 1.00	.99	.89	.79
326713	JVP	531102B02500	9	TO-220	3	1.38 x 0.50 x 1.50	.99	.89	.79
2155022	JVP	BK-T220-0082	10	TO-220	1	1.75 x 0.70 x 0.37	.79	.65	.49
2155014	AVD	THM6071	11	TO-220 (open back)	1	1.75 x 0.70 x 0.37	.49	.39	.29
326765	JVP	531302B02500	9	TO-220/202	3	2.50 x 1.38 x 0.50	1.29	1.15	1.05
696626	AVD	530002B02500	9	TO-220	1	2.52 x 1.65 x 1.00	1.95	1.59	1.39
696714	AVD	577002B00000G	12	TO-220	1	0.52 x 0.25 x 0.75	.29	.25	.22
158051	AVD	577102B0000G	12	TO-220	1	0.75 x 0.52 x 0.25	.29	.25	.22
1115643	AVD	577202B00000G	12	TO-220	1	0.52 x 0.50 x 0.75	.35	.29	.25
326596	JVP	507302B00000	12	TO-220	1	0.75 x 0.75 x 0.38	.29	.25	.17
70658	JVP	THM6073	12	TO-220	1	0.75 x 0.75 x 0.38	.35	.29	.19
2202036	AVD	THM6110B-MT	13	TO-220	1	1.00 x 0.50 x 0.72	1.19	1.05	.89
129242	JVP	THM6106	12	TO-220	1	1.18 x 1.00 x 0.50	.65	.55	.45
70915	JVP	THM6106	12	TO-220	2	1.18 x 1.00 x 0.50	.69	.59	.49
696722	AVD	581002B02500G	14	TO-220	1	0.64 x 0.64 x 1.00	1.29	1.19	1.09
1115133	AVD	574402B03200G	15	TO-220	1	0.75 x 0.87 x 0.40	.49	.39	.29
42622	AVD	563002B00000	16	TO-220	1	1.18 x 1.00 x 0.50	.59	.49	.45
2155348	AVD	THM6038	17	TO-220	0	1.18 x 1.00 x 0.50	.49	.39	.35
2159621	AVD	578622B03200G	18	TO-220 (Dual)	2	1.48 x 0.50 x 1.00	.79	.59	.49
2178689	AVD	THM6237	19	TO-220	Clip	0.38 x 0.89 x 0.70	.59	.49	.35

Fig. 1 (2150942)   Fig. 2 (2077335)   Fig. 3 (1115900)

Fig. 4 (NM)   Fig. 5 (189835)   Fig. 6 (2215486)

Fig. 7 (16513)   Fig. 8 (2145086)   Fig. 9 (326757)

Fig. 10 (2155022)   Fig. 11 (2155014)   Fig. 12 (70658)

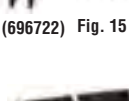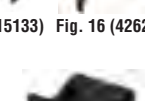Fig. 13 (2202036)   Fig. 14 (696722)   Fig. 15 (1115133)   Fig. 16 (42622)
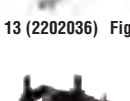
Fig. 17 (2155348)   Fig. 18 (2159621)   Fig. 19 (2178689)

GC   NTE   AAVID THERMALLOY

Heat Sink Compounds

Part No.	Manufacturer	Description	Vol. (oz.)	1	5
615355	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	16	$39.95	$36.95
236823	ValuePro	Heat sink compound, silicon based grease	0.35	4.95	4.49
167249	Aavid Thermalloy	Heat sink compound, silicon based grease	2	8.95	7.95
169252	Techspray	Heat sink compound, silicon free	4	32.95	29.95
259151	NTE	Heat sink compound, white gel, thermal grease (5 pack)	0.35	2.49	2.25
615304	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	16	29.95	26.95
615312	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	0.23	3.49	3.25
615321	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	1	7.95	6.95

236823   167249

169252   615321

⊛ AVD = Aavid Thermalloy | JVP = Jameco ValuePro | ON = On Semi | TAT = Taitron | TEC = Teccor | ✦ Major Brands

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Infineon | OPTEK | CLARE | JAMECO ValuePro | SIEMENS | FAIRCHILD | ISOCOM | LITEON

Optoisolators

★ *Web Code: CAG*

✳ Order in multiples of 10

Part No.	☀Mfr.	Product No.	Pkg.	Description	1	10	100
40985	✦	4N25	DIP-6	NPN phototransistor output	$.25	$.22	$.19
41005	✦	4N26	DIP-6	NPN phototransistor output	.29	.25	.22
41013	✦	4N28	DIP-6	NPN phototransistor output	.29	.25	.22
41021	✦	4N32	DIP-6	NPN photodarlington output	.29	.25	.22
41030	✦	4N33	DIP-6	NPN photodarlington output	.25	.22	.19
41056	✦	4N35	DIP-6	NPN phototransistor output	.29	.25	.22
1872628	OPT	OPB606A	DIP-4	NPN phototransistor	1.59	1.49	1.35
1628828	IFT	ILQ74	DIP-16	Quad-channel phototransistor	1.95	1.75	1.59
320653	✦	PS2501-1	DIP-4	Single NPN phototransistor output ..	.35	.29	.25
320661	✦	PS2501-2	DIP-8	Dual NPN phototransistor output ...	1.19	1.09	.95
160338	✦	PS2501-4	DIP-16	Quad NPN phototransistor output ..	1.65	1.39	1.19
320688	✦	PS2502-1	DIP-4	Darlington photocoupler	.79	.69	.59
320696	✦	PS2502-2	DIP-8	Dual NPN photodarlington output ..	1.95	1.75	1.49
160362	✦	PS2502-4	DIP-16	Quad NPN photodarlington output	2.49	2.25	1.95
320717	✦	PS2505-2	DIP-8	High isolation volt. photocoupler ...	2.25	1.95	1.75
320725	✦	PS2505-4	DIP-16	Quad NPN phototransistor output ..	1.95	1.75	1.49
320805	✦	PS2532-4	DIP-16	Quad hi collector to emitter voltage	2.75	2.49	2.25
26278	✦	MOC3010	DIP-6	Bilateral sw. non-zero crossing triac ...	.49	.39	.35
95020	✦	MOC3011	DIP-6	Random phase, triac driver output ...	.49	.45	.35
277780	✦	MOC3020	DIP-6	Bilateral sw. non-zero crossing triac ...	.49	.39	.35
95038	✦	MOC3021	DIP-6	Random phase, triac driver output ...	.59	.39	.29
277819	✦	MOC3023	DIP-6	Random phase, triac driver output ...	.49	.45	.39
26294	JVP	MOC3031	DIP-6	Zero-crossing, triac driver output	.79	.69	.59
277835	✦	MOC3041	DIP-6	Zero-crossing, triac driver output ...	.59	.49	.45
133874	✦	MOC3063	DIP-6	Zero-crossing, triac driver output ...	.69	.59	.49
2006414	LTO	LTR-5986D	SIP-3	NPN phototransistor/detector	✳	.19	.15

★ *Distant and Light Kits — Enter Web Code DLK*

T1¾ Cliplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.

★ *Web Code: KAL*

.25" DIA
.28" DIA
.22" .43"
CLF280

.25" DIA
.28" DIA
.22" .43"
CLB300

Part No.	Mfr. Part No.	Size	Color	1	10	100	1000
14277	CLF280CTP	T1 ¾	Clear	$.29	$.25	$.21	$.19
124927	CLB300CTP	T1 ¾	Clear	.29	.25	.21	.19

Panel Lens for PCB Mounted T1¾ LED

T1-3/4 size low-profile panel lenses provide 180° viewing angle.

★ *Web Code: KAL*

.30" (7.62mm)
.21" (5.33mm)
.07" (1.78mm)
Length
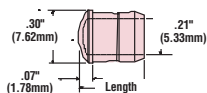
Part No.	Mfr. Part No.	Size	Color	Length	1	10	100	1000
143132	CMC321CTP	T1 ¾	Clear	.33"	$.29	$.25	$.21	$.19

2-150mA T1 & T1¾ LED Tester

JAMECO BenchPro

Plug any leaded LED into any 2 rows of sockets. 13.1" spaced positions test T1/T1 ¾ LEDs from 2 to 30mA; 13.2" spaced positions test larger footprint (high flux) LEDs from 20 to 150mA. Uses 9V battery (P/N 198731 – sold separately)

Part No.	Description	Size (L x W x H)	1	5	25
355805	LED tester	3.1" x 2.2" x 0.9"	$9.95	$8.95	$7.95

Optocouplers

★ *Web Code: NAK*

Part No.	☀Mfr.	Product No.	Pkg.	Description	1	10	100
42471	✦	6N136	DIP-8	Hi-speed phototransistor output	$.75	$.65	$.55
113911	✦	6N137	DIP-8	Hi CMR, hi-speed logic gate output ...	.79	.69	.59
42489	✦	6N138	DIP-8	Hi-speed photodarlington output	.69	.59	.49
18825	✦	H11AA1	DIP-6	AC input/phototransistor	.59	.49	.45
320493	FSC	H11D1	DIP-6	Hi voltage phototransistor	.69	.49	.39
24918	✦	MCT6	DIP-8	High density NPN phototransistor ...	.59	.49	.45
672325	✦	MCT62	DIP-8	Dual channel NPN phototransistor	.69	.59	.49
2202378	LTO	LTH-1550-01	DIP-4	Photointerruptor-NPN phototransistor	.39	.35	.29
2006385	LTO	LTV-814H	DIP-4	Phototransistor output, AC input	.29	.19	.15
2215890	OMR	EE-SA105	DIP-4	Photomicrosensor (actuator)	3.49	2.95	2.49
878286	LTO	LTV-847	DIP-16	Quad ch. phototransistor output	.69	.59	.49
1583156	CLA	PD2401*	DIP-16	AC solid st. sw. w/ dual pwr SCR output	6.95	5.95	5.49

*4 pins

Slotted Optical Switches

2078282   2126301

★ *Web Code: XAP*

Part No.	☀Mfr.	Product No.	Pkg.	Description	1	10	100
114091	✦	H21A1	4-pin w/ tab	Single channel, 20mA (Ic)	$2.75	$2.49	$2.25
320901	✦	H21A3	4-pin w/ tab	Single channel, 20mA (Ic)	2.75	2.49	2.25
2078282	SIE	IRLA075	4-pin w/ tab	Single channel, 50mA (Ic)	.99	.89	.79
2126301	ISO	ISTS150	8-pin w/ tab	Dual channel, 20mA (Ic)	.89	.79	.59

★ *Web Code: OTS*

Optical Tilt Switches
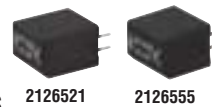
2126521   2126555

Part No.	Mfr. Part No.*	Pkg.	Description	1	10	100
2126521	RP-CUB-30-000-NB	4-pin	Optical tilt, 30°, 5mA (Ic)	$.59	$.49	$.39
2126555	RP-RUB-15-000-NB	4-pin	Optical tilt, 15°, 5mA (Ic)	.59	.49	.39
2126547	RP-RUB-30-000-NB	4-pin	Optical tilt, 30°, 5mA (Ic)	.59	.49	.39
2126539	RP-RUB-45-000-NB	4-pin	Optical tilt, 45°, 5mA (Ic)	.59	.49	.39

*CUB = horizontal mount PCB; RUB = vertical mount PCB

Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.

Part No.	Mfr. Part No.	LED Size	Termination (leads)	Length	1	10	100
143037	CNXCE2108	T1 ¾ (5mm)	2-pin connector	8" ..	$2.19	$2.09	$1.75
2219321	CNXCE4112	T1 ¾ (5mm)	2-pin connector	8"	2.49	2.25	1.95

T1 & T1¾ LED Mounting Hardware

LIGITEK

• Color: black

★ *Web Code: KAL*

95513   23077

Order in multiples of 10

Part No.	Mfr. P/N	Description	Mounting Hole Dia.	Panel Thickness	Pricing 10	100	1000
95513	LA27B	T1 snap-in	.185"	Up to .070"	$.12	$.10	$.08
23077	PT18H013*	T1 ¾ ring/clip	.257"	Up to .125"	.15	.14	.12

*Manufacturer: Jameco ValuePro

★ *1/4-Watt Thick Film Resistors — Enter Web Code: RCN*

*CLA = Clare | FSC = Fairchild | IFT = Infineon | ISO = Isocom | JVP = Jameco ValuePro | LTO = Lite On | OMR = Omron | OPT = Optek | SIE = Siemens | ✦ Major Brands

18 *Order by Phone at 1-800-831-4242 or Online at www.Jameco.com*

JAMECO.COM

Optos
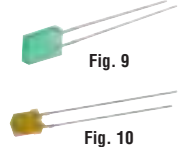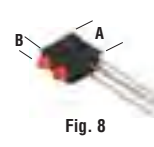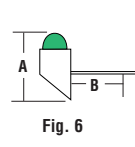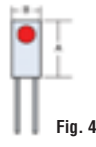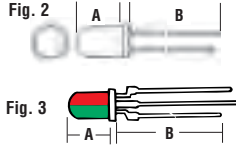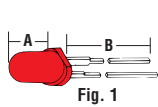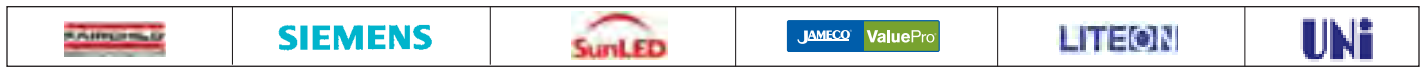
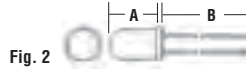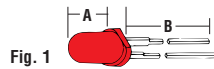## Standard-Output LEDs

★ *Web Code: FAF*

✳ Order in multiples of 10

Part No.	Product No.	✳Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength n m	Viewing Angle°	Pricing 1	10	100	1000
697565	LTL-4211N	LTO	1	Red	Red diffused tinted	T1	0.119/3	0.17	1.00	0.10	2.1	4.4	697	60	✳	$.10	$.08	$.06
94529	LH2040	JVP	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	✳	.12	.10	.08
202471	MVL-301HR★★	UNI	1	Red	Red diffused	T1	0.119/3	0.14	1.12	0.10	2.0	9.0	640	40	✳	.10	.08	.06
152785	LT0341R-41	JVP	1	Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1	15.5	635	56	✳	.12	.10	.08
2186435	LTL-16KEE	LTO	2	Red	Red hi-eff transparent	T1	0.119/3	0.16	0.95	0.10	2.0	19	635	45	✳	.09	.07	.05
333851	UT6371-41-M1	JVP	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.8	65	660	60	✳	.12	.10	.08
152751	LT0344R-41	JVP	1	Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1	60	635	36	✳	.12	.10	.08
2197732	LSR2643-1	JVP	1	Red	Water clear	T1	0.119/3	0.13	1.04	0.10	2.1	120	660	40	✳	.15	.12	.10
114673	LH2043★	JVP	1	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	8	697	30	✳	.12	.10	.08
206498	LHR2041	JVP	1	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.4	350	660	30	✳	.12	.10	.08
697590	LTL-4221N	LTO	1	Hi-eff Red	Red diffused	T1	0.118/3	0.175	1.00	0.10	2.0	8.7	635	60	✳	.079	.065	.055
2006713	LTL-161CE	LTO	1	Hi-eff Red	Red diffused, flanged	T1	0.118/3	0.21	1.07	0.10	2.0	12.6	621	60	✳	.10	.08	.06
2081932	BVL-300E5D	JVP	2	OrangeRed	Red diffused	T1	0.119/3	0.17	1.00	0.10	2.1	18	632	45	✳	.06	.05	.04
94553	LHG2062	JVP	1	Red/Green	White diffused bi-color/bi-state[1]	T1	0.119/3	0.18	1.06	0.08	2.6	3/1.2	697/565	36	✳	.19	.15	.12
156946	LT0362-25-D61	JVP	3	Red/Green	White diffused bi-color/tri-state	T1	0.119/3	0.16	0.87	0.08	2.1	2.7/13.3	700/567	50	.39	.35	.29	.25
697688	LTL-4251N	LTO	2	Yellow	Yellow diffused	T1	0.118/3	0.175	1.00	0.10	2.1	5.6	585	60	✳	.15	.12	.10
2155241	BVL-360YID	JVP	2	Yellow	Yellow diffused	T1	0.119/3	0.13	1.00	0.10	2.2	14	590	55	✳	.12	.10	.08
34657	LY2040★	JVP	1	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	1.2	20	585	36	✳	.12	.10	.08
2133608	W934EW/YD	JVP	4	Yellow	Yellow diffused (right angle)	T1	0.118/3	0.29	0.18	0.10	2.1	15	590	60	✳	.05	.03	.015
2125464	VX4SUGY91M	SLD	5	Yellow/Green	White diff. bi-color, quad-level	T1	0.119/3	0.47	0.20	0.10	2.1/2.2	24/6	590/565	130	✳	.19	.15	.12
2006705	LTL-1CHYE★	LTO	1	Yellow	Water clear, flanged	T1	0.119/3	0.21	1.07	0.10	2.0	40	585	45	✳	.07	.05	.035
206480	LVY2041	JVP	1	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	✳	.12	.10	.08
253631	HLMP-1503	FSC	1	Green	Green diffused	T1	0.119/3	0.19	1.00	0.10	2.1	5.0	565	60	✳	.12	.10	.08
333201	LG12340	JVP	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	✳	.12	.10	.08
697629	LTL-4231	LTO	1	Green	Green diffused	T1	0.119/3	0.20	1.00	0.10	2.1	12.6	569	40	✳	.09	.07	.05
211086	LTL-4231N-022	LTO	2	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	60	✳	.07	.055	.039
697637	LTL-4231N	LTO	2	Green	Green diffused	T1	0.119/3	0.175	1.00	0.10	2.1	12.6	565	60	✳	.079	.059	.049
34606	LSG2040★	JVP	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	✳	.15	.12	.10
2155233	BVL-360GID	JVP	2	Green	Green diffused	T1	0.119/3	0.13	1.00	0.10	2.3	18	573	55	✳	.08	.06	.04
156930	LT0321-41-HE	JVP	1	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1	32	567	56	✳	.15	.12	.10
175679	LVG2041	JVP	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	✳	.15	.12	.10
114681	LVG2043★	JVP	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	✳	.12	.10	.08
137411	LVB2040	JVP	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	3.5	10	430	50	.89	.79	.69	.65
333383	UT63B1-41-URC3	JVP	2	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.59	.49	.39	.29
253817	HLMP-4700	FSC	1	Red	Red diffused	T1 ¾	0.197/5	0.35	1.10	0.08	1.8	2	635	50	✳	.15	.12	.09
34690	LFH3360★	JVP	1	Red	Red diff. blinking (XC5410)[2]	T1 ¾	0.197/5	0.30	0.94	0.07	3-12	2.8	697	—	.39	.35	.29	.25
94511	LH3330	JVP	1	Red	Red diffused (XC556RB)	T1 ¾	0.197/5	0.31	0.81	0.08	2.3	3	697	36	✳	.15	.12	.10
242844	LT1811-81	JVP	1	Red	Red diffused	T1 ¾	0.197/5	0.30	0.88	0.10	2.1	4.1	700	44	✳	.12	.10	.08
2125309	LS5469FH	SIE	1	Red	Red diffused	T1 ¾	0.20/5.1	0.31	1.10	0.10	1.8	5	635	50	✳	.07	.05	.03
253753	HLMP-3301	FSC	1	Red	Red diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.4	5.4	635	60	✳	.19	.17	.12
104248	LA93B/H-1★	JVP	6	Red	Red diffused (XC410R)	T1 ¾	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.25	.21	.19	.15
333973	UT1871-81-M1	JVP	1	Red	Red diffused	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	75	660	25	✳	.12	.10	.08
2186558	MSB557DA-OHM	LTO	1	Red	Red diffused (blinking)	T1 ¾	0.197/5	0.30	0.94	0.10	3.0	80	660	30	✳	.09	.07	.055
333489	LUR3330/HO/A	JVP	1	Red	Red diffused	T1 ¾	0.197/5	0.34	0.98	0.10	1.5	380	660	40	✳	.19	.15	.12
302033	LT1814-81	JVP	1	Red	Red clear	T1 ¾	0.197/5	0.34	0.88	0.10	2.1	10	650	10	✳	.10	.08	.06
2155399	LTL-4268-H4	LTO	2	Red	Water clear	T1 ¾	0.197/5	0.34	1.00	0.10	1.8	270	638	16	✳	.12	.10	.08

*10 pcs./** 100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 28   [1] Reverse polarity to change color   [2] Volt. shown is operating volt. range; no current limiting resistor required

★ FSC = Fairchild Semi | JVP = Jameco ValuePro | LTO = Lite On | SIE = Siemens | SLD = Sunled Corp. | UNI = Unity Opto

★*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Standard-Output LEDs (Continued)

See pages 18 & 28 for LED Mounting Hardware

★ **Web Code: FAF**   ✳ Order in multiples of 10

Part No.	Product No.	✳Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength n m	Viewing Angle°	Pricing 1	10	100	1000
697602	LTL-4223	LTO	1	Hi-eff Red	Red diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.0	19	635	36	✳	$.07	$.055	$.045
697522	LTL-307E-002	LTO	2	Hi-eff Red	Red diffused	T1 ¾	0.197/5	0.34	0.90	0.10	2.0	19	635	50	✳	.09	.07	.055
2006692	LTL-10224WHCR	LTO	7	Hi-eff Red	Red diffused w/ plastic case	T1 ¾	0.197/5	0.44	0.49	0.10	2.0	60	635	30	✳	.06	.04	.025
2006730	LTL-307E-3 ✳✳	LTO	1	Hi-eff Red	Red diffused, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	2.0	12.6	623	40	✳	.09	.07	.05
790081	LTL-10223W	LTO	2	Hi-eff Red	Red diffused, flangeless	T1 ¾	0.187/4.75	0.283	1.00	0.10	2.0	60	623	60	✳	.12	.09	.07
697611	LTL-4224	LTO	1	Hi-eff Red	Red transparent	T1 ¾	0.197/5	0.34	1.00	0.10	2.0	90	635	16	✳	.12	.10	.08
697573	LTL-4213	LTO	1	Bright Red	Red diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	3.7	657	36	✳	.08	.059	.05
790225	LTL-307P	LTO	2	Bright Red	Red diffused	T1 ¾	0.197/5	0.34	0.90	0.10	2.1	5.6	657	50	✳	.10	.08	.06
1109260	TLUV5300	VSH	3	Red/Green	White diffused bi-color/bi-state[1]	T1 ¾	0.197/5	0.30	1.00	0.10	3.0	2.5	630/565	60	✳	.15	.12	.09
334182	LHG3362	JVP	1	Red/Green	White diff. bi-color/solid state[1]	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	1.2/4.5	697/565	30	✳	.19	.17	.15
34673	LHG3392 ✳	JVP	3	Red/Green	White diff. bi-color/tri-state	T1 ¾	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	✳	.19	.15	.12
2186460	LTL-30WJNF	LTO	2	Red/Green	White diffused, bi-color	T1 ¾	0.197/5	0.34	0.83	0.10	1.8/2.1	60/29	660/565	60	✳	.19	.15	.12
1554831	HLMP-4000	AVT	3	Hi-eff Red/Grn	White diffused, bi-color	T1 ¾	0.2/5.08	0.36	1.00	0.10	1.9/2.2	2.1/4.2	635/568	65	.49	.39	.29	.25
697557	LTL-30EFJ	LTO	3	Bright Red/Grn	White diffused, bi-color	T1 ¾	0.197/5	0.41	0.945	0.10	2.1/2.1	5.6/19	697/565	30	✳	.19	.15	.12
1995960	LTL-30EHJ-002	LTO	3	Red/Orange/Grn	Diffused (3 lead)	T1 ¾	0.197/5	0.37	0.790	0.10	2.0/2.1	60/100	635/565	30	.29	.25	.19	.12
34711	LEG3362 ✳	JVP	1	Orange/Grn	White diffused bi-color/bi-state[1]	T1 ¾	0.197/5	0.30	1.01	0.09	1.7	4.5	635/565	30	✳	.19	.15	.12
152857	LT1841R-81-R	JVP	1	Orange Red	Red diffused	T1 ¾	0.197/5	0.34	0.89	0.10	2.1	23.1	630	45	✳	.08	.06	.04
210825	BVU-5M1QN1	BVO	2	Orange Red	Red diffused	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	465	615	30	✳	.08	.07	.05
107393	LE3330	JVP	1	Orange Red	Orange diffused (XC556A)	T1 ¾	0.197/5	0.30	1.02	0.08	2.3	24	635	36	✳	.12	.10	.08
2155268	BVL-501EID	JVP	2	Orange Red	Orange diffused	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	50	622	25	✳	.09	.06	.04
2125288	LY5469FH	SIE	1	Yellow	Yellow diffused	T1 ¾	0.20/5.1	0.31	1.10	0.10	2.0	5	586	50	✳	.08	.06	.05
34825	LY3330	JVP	1	Yellow	Yellow diffused (XC556Y)	T1 ¾	0.197/5	0.30	0.82	0.07	2.3	12	585	36	✳	.15	.12	.10
1995927	LTL-10253	LTO	1	Yellow	Yellow diffused, flanged	T1 ¾	0.187/4.75	0.283	1.00	0.10	2.1	12.6	585	60	✳	.15	.12	.10
697696	LTL-4253	LTO	1	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	19	585	36	✳	.08	.06	.05
104264	LA93B/Y-1 ✳	JVP	6	Yellow	Yellow diffused (XC410Y)	T1 ¾	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.29	.25	.19	.15
697549	LTL-307Y	LTO	2	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.90	0.10	2.1	29	585	50	✳	.09	.055	.045
334108	UT1831-81-S	JVP	1	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.98	0.10	2.1	90	590	10	✳	.12	.10	.08
333622	LHY3330/HO	JVP	1	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	350	595	40	✳	.15	.12	.10
253833	HLMP-4740	FSC	1	Green	Green diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.2	2.3	565	50	✳	.15	.12	.10
2125296	LG5469FH	SIE	1	Green	Green diffused	T1 ¾	0.20/5.1	0.31	1.10	0.10	1.9	5	565	50	✳	.10	.08	.06
693901	MCDL-5013GD	MCD	1	Green	Green diffused	T1 ¾	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	✳	.10	.08	.06
697653	LTL-4233	LTO	1	Green	Green diffused	T1 ¾	0.197/5	0.40	1.00	0.10	2.1	19	565	36	✳	.09	.075	.059
697531	LTL-307G	LTO	1	Green	Green diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	19	565	50	✳	.12	.10	.08
334086	LG13740	JVP	1	Green	Green diffused	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	20	565	68	✳	.10	.08	.06
34761	LG3330 ✳	JVP	1	Green	Green diffused (XC556G)	T1 ¾	0.197/5	0.31	0.79	0.09	2.3	30	565	36	✳	.15	.12	.10
104256	LA93B/G-1 ✳	JVP	6	Green	Green diffused (XC410G)	T1 ¾	0.197/5	0.35	0.89	0.08	2.3	30	565	46	✳	.17	.14	.10
152822	LT1821-81-HE	JVP	1	Green	Green diffused	T1 ¾	0.197/5	0.34	0.89	0.10	2.1	50	567	41	✳	.19	.15	.12
2126571	BR-B2134-12V	BRT	1	Green	Green diffused	T1 ¾	0.197/5	0.30	1.04	0.10	12	80	568	35	✳	.10	.08	.06
697661	LTL4234	LTO	1	Green	Green transparent	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	60	565	16	✳	.07	.059	.045
333227	LG13530	JVP	2	Hi-eff green	Green diffused (flangeless)	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	25	565	36	✳	.10	.08	.06
2133641	LT641G1HR-H206	JVP	8	Green/Red	Green/Red diffused (dual)	T1 ¾	0.197/5	0.49	0.24	0.10	2.1	28/40	567/635	38	.39	.35	.29	.19
138691	LVB3330	JVP	1	Blue	Blue diffused	T1 ¾	0.197/5	0.34	0.98	0.10	4.8	10	430	36	.99	.89	.75	.69
2006764	LTL-2R3CBD3	LTO	1	Blue	Blue diffused, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	3.5	50	468	45	.69	.65	.55	.45
2133421	SSL-LX5093SWC/A	LUM	1	White	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.6	200	—	16	.89	.79	.69	.59
138683	LHR3630	JVP	2	Red	Red diffused	10mm	0.394/10	0.40	1.04	0.10	2.0	200	660	32	.39	.35	.29	.19
2152112	MCDL-10003SED	JVP	2	Hi-eff red	Red diffused	10mm	0.394/10	0.43	1.00	0.1	2.0	35	635	60	.59	.55	.49	.39
2152139	MCDL-10003ED-E	JVP	2	Orange	Orange diffused	10mm	0.394/10	0.43	1.00	0.1	2.0	25	610	60	.45	.39	.35	.29
2152121	MCDL-10003SYD	JVP	2	Yellow	Yellow diffused	10mm	0.394/10	0.43	1.00	0.1	2.0	35	590	60	.59	.55	.49	.39
98984	LVG3630	JVP	1	Green	Green diffused	10mm	0.394/10	0.40	1.07	0.08	2.3	40	565	32	.39	.35	.29	.25
2152104	MCDL-10003-SGD	JVP	2	Green	Green diffused	10mm	0.394/10	0.43	1.00	0.1	2.2	50	570	60	.59	.55	.49	.39
2152147	MCDL-10003SBD	JVP	2	Blue	Blue diffused	10mm	0.394/10	0.43	1.00	0.1	4.2	20	430	60	1.49	1.35	1.19	.99
104889	LEG5292	JVP	9	Orange/Grn	White diff. bi-color rectangular	2x5mm	—	0.27	1.02	0.08	2.3	6/6	635/565	116	.29	.25	.19	.17
790356	LTL-433G	LTO	9	Green	Green diffused, rectangular	2x5mm	—	0.30	1.02	0.10	2.1	3.7	565	140	✳	.12	.10	.08
2133464	SSL-3353SYD	LUM	10	Yellow	Yellow diffused, square	3x3mm	0.119/3	0.18	1.00	0.10	2.5	100	590	80	✳	.04	.03	.02

*10 pcs./**100 pcs. in LEDs & LED mounting hardware cabinet kit, pg 28   [1] Reverse polarity to change color

✳ AVT = Avago | BRT = Bright LED | BVO = BV Optotech | FSC = Fairchild Semi | JVP = ValuePro | LTO = Lite On | LUM = Lumex | MCD = MCD Elec. | SIE = Siemens | VSH = Vishay
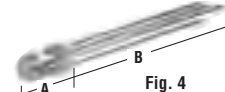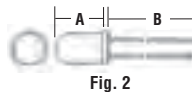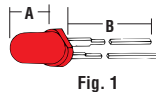
Medium-Output LEDs

Fig. 1   Fig. 2   Fig. 3

✳ Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength n m	Viewing Angle°	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
156954	UT0373-41	JVP	1	Red Super Bright	Water clear	T1	0.119/3	0.16	0.94	0.10	1.8	100	660	36	✳	$.19	$.15	$.12
333340	LHE2643	JVP	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	700	620	40	✳	.17	.12	.10
2133632	LT033N-41-UR91	JVP	1	Yellow	Water clear	T1	0.119/3	0.20	0.89	0.10	1.9	700	589	35	✳	.06	.04	.03
333307	LUY2643-1	JVP	1	Yellow	Water clear	T1	0.197/5	0.13	0.98	0.10	1.7	900	595	40	.35	.29	.25	.19
98968	QLMP-LB98	AVT	2	Blue	Blue clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	550	470	70	.49	.39	.35	.25
334749	UT63B3-41-UR33	JVP	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	.79	.69	.59	.49
334764	LWK2043	JVP	1	White	Water clear	T1	0.119/3	0.17	0.98	0.10	3.5	900	—	30	.99	.89	.75	.65
2193900	LTL-307UR-002	LTO	2	Red	Red diffused	T1 ¾	0.197/5	0.29	0.83	0.10	1.8	470	660	50	✳	.15	.12	.10
333497	LSR13233	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.5	720	660	18	✳	.19	.15	.12
206519	LHR3331	JVP	1	Red	Red transparent	T1 ¾	0.197/5	0.30	0.98	0.10	1.5	900	550	20	✳	.19	.15	.12
152864	BVU501SR4	JVP	1	Red Super Bright	Water clear	T1 ¾	0.197/5	0.34	0.89	0.10	1.9	600	660	20	✳	.12	.08	.06
351089	MCDL-517URD-F	JVP	1	Super Red	Red diffused blinking	T1 ¾	0.197/5	0.30	1.00	0.10	1.8	500	660	120	.59	.49	.39	.35
206501	LVY3331	JVP	1	Yellow	Yellow transparent	T1 ¾	0.197/5	0.30	1.02	0.10	1.7	1500	595	20	✳	.17	.12	.10
153154	LVG3333	JVP	1	Green	Water clear (HLMP-8509)	T1 ¾	0.197/5	0.30	1.02	0.10	2.1	500	565	20	✳	.12	.10	.08
156962	LT1823-81-HE	JVP	2	Green	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	500	567	19	✳	.19	.15	.12
333551	LVG13233	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	600	565	18	✳	.19	.15	.12
2135267	TLHB-5100	VSH	1	Blue	Water clear	T1 ¾	0.197/5	0.30	0.90	0.10	3.9	250	466	9	.59	.49	.39	.29
2211080	KTL050BLDI	JVP	2	Blue	Blue diffused	T1 ¾	0.197/5	0.30	1.00	0.10	3.5	350	470	120	.59	.49	.39	.29
134333	383UBC/H2	JVP	1	Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.8	630	428	30	.99	.89	.79	.65
334465	LDBK3331/H0	JVP	1	Blue	Blue transparent	T1 ¾	0.197/5	0.30	0.98	0.10	3.5	900	470	26	.89	.79	.69	.59
2133659	LT12W3-4D-UDE3-WD	JVP	3	White	Water clear	T1 ¾	0.181/4.6	0.30	1.00	0.10	3.2	850	—	100	.89	.79	.69	.59
2129625	LDUV3333	JVP	1	Purple	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.0	450	400	20	1.25	1.15	.99	.85
2152155	MCDL-833URD-U12	JVP	2	Super Red	Red diffused	10mm	0.394/10	0.43	1.00	0.10	1.8	600	660	60	.59	.55	.45	.35
2209115	MCD-10003UBD	JVP	2	Blue	Diffused	10mm	0.394/10	0.47	1.00	0.10	3.5	600	470	60	1.29	1.19	1.05	.85

High-Output LEDs

• Typical DC forward current 20mA

Fig. 1   Fig. 2   Fig. 3 (Piranha)   Fig. 4

✳ Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	Dimensions B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength n m	Viewing Angle°	Pricing 1	Pricing 10	Pricing 100	Pricing 1000
98950	QLMP-LM98	AVT	2	Green	Green clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	2400	525	70	✳	$.19	$.15	$.12
2168421	3MMLED-BLUE	JVP	1	Blue	Blue diffused	T1	0.119/3	0.15	0.69	0.10	3.4	5000	465	120	✳	.19	.15	.12
2169846	3MMLED-GREEN	JVP	1	Green	Green diffused	T1	0.119/3	0.15	0.69	0.10	3.4	5000	520	120	✳	.19	.15	.12
2174881	3MMLED-WHITE	JVP	1	White	White diffused	T1	0.119/3	0.15	0.69	0.10	3.4	8000	—	120	✳	.19	.15	.12
217525	MCDPW-3004C	JVP	2	White	Water clear	T1	0.119/3	0.14	1.00	0.10	3.8	3000	—	30	1.39	1.25	1.09	.99
2205430	MCD-3014UEC-TL	JVP	2	Red	Water clear	T1	0.119/3	0.17	1.00	0.10	2.1	3000	620	25	.69	.59	.49	.39
2138855	MCD-3014UEC-TL	JVP	2	Red	Water clear	T1	0.119/3	0.17	1.00	0.10	2.1	3000	620	25	1.19	1.09	.95	.79
333526	LUR3833	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	1.02	0.10	1.5	2700	660	12	.25	.21	.19	.16
2188449	LHRF3333S/S46-PF-B01	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	5000	625	30	.39	.35	.29	.22
1584917	HLMP-EG08-Y2000	AVT	1	Red	Red untinted/non-diffused	T1 ¾	0.197/5	0.30	0.94	0.10	1.9	9300	635	6	.59	.49	.39	.35
333447	UT1873-81-UR-P22R	JVP	2	Super Red	Water clear	T1 ¾	0.197/5	0.30	0.89	0.10	1.9	1600	660	25	.29	.25	.22	.19
2095171	RL50-PR543	JVP	2	Ult. Bright Red	Water clear	T1 ¾	0.197/5	0.30	1.02	0.10	1.7	8000	635	20	.39	.29	.19	.15
333657	LUE3333	JVP	2	Orange	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	3400	620	20	.39	.35	.25	.22
333673	LUE3833	JVP	2	Orange	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	5000	620	12	.39	.35	.25	.22
333569	LVY3333/A*	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	2500	590	20	✳	.15	.12	.10
2186419	LTL-2H3VYKNT	LTO	1	Amber/Yellow	Water clear	T1 ¾	0.197/5	0.30	0.87	0.10	2.0	3400	595	15	✳	.15	.12	.09
333614	LUY3833H	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	5000	590	12	.39	.35	.29	.25
2095189	RL50-PY543	JVP	2	Ultra Yellow	Water clear	T1 ¾	0.197/5	0.30	1.02	0.10	1.7	8000	595	20	.39	.29	.19	.15
2006772	LTL-2H3VYKNT1	LTO	1	Amber/Yellow	Water clear, flanged	T1 ¾	0.197/5	0.30	0.87	0.10	2.0	3400	595	15	✳	.12	.10	.07
2167251	MCDL-5013BGC-TL	JVP	2	Green/Blue	Water clear	T1 ¾	0.197/5	0.30	0.96	0.10	3.2	11000	510	30	.99	.89	.79	.65
1586197	UT4J23-4D-UBC2-S11	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.28	0.94	0.10	3.0	2500	500	28	.45	.39	.35	.29
334473	LDGL3333/H0	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	3.5	3400	505	22	.75	.65	.55	.45
2210706	MCDL-5013BGC-T	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.5	7000	505	18	.59	.55	.49	.39
2077079	HLMP-CM39-UVCDD	AGT	2	Green	Untinted/non-diffused	T1 ¾	0.197/5	0.30	0.90	0.10	3.2	5000	535	30	.49	.45	.39	.35
2188668	SSL-LX5093XUSBC	LUM	1	Super Blue	Water clear	T1 ¾	0.197/5	0.34	1.04	0.10	3.5	2500	470	10	.99	.89	.79	.69
2210896	Q62703Q5931	OSR	1	Blue	Water clear	T1 ¾	0.197/5	0.30	1.06	0.10	3.5	2800	470	15	1.09	.99	.89	.79
183222	MCDL-5013UBC-TL	JVP	1	Blue	Water clear	T1 ¾	0.197/5	0.30	0.94	0.10	3.5	6000	470	18	1.39	1.25	1.09	.99
142894	BVU-5E1WK4-B	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.5	3700	—	15	1.49	1.35	1.19	1.05
334502	LWK3333	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	0.94	0.10	3.5	5000	—	16	.89	.79	.65	.59
320531	MCDL-5013UWC	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	.99	.89	.75	.65
2077061	EM-503QWC-R12	JVP	2	White	Water clear	T1 ¾	0.197/5	0.30	1.04	0.10	4.5	5000	—	25	.99	.89	.75	.65

*10 pcs. in LEDs & LED mounting hardware cabinet kit, pg 28

✶ AGT = Agilent | AVT = Avago Technology | JVP = Jameco ValuePro | LTO = Lite-On | LUM = Lumex Optoelectronics | OSR = Osram | VSH = Vishay

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High-Output LEDs (Continued)

Figure images on previous page ★ Web Code: RBJ

Part No.	Product No.	✳Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing 1	10	100	1000
2115493	UT5HW3-4D-URC3-4861-R	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	0.95	0.10	4.0	7000	—	30	$1.19	$1.09	$.95	$.79
2160067	MVL-514SW-T-SI	UNI	2	White	Water clear	T1 ¾	0.197/5	0.30	1.04	0.10	3.2	11,000	—	15	1.09	.99	.89	.75
2144753	TLWB7600	VSH	3	Blue	Water clear (7.62mm sq.)	2mm dome	0.079/2	0.30	0.30	0.20	4.3	2000	470	30	1.09	.99	.89	.79
2005702	LTL912VEKSA	LTO	3	Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.15	1200	632	50	.49	.39	.35	.29
404603	MCDL-1860UGC-TL	JVP	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	1.39	1.25	1.15	.95
404591	MCDL-1860UBC-15C	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	1.29	1.19	1.05	.89
664341	MCDL-1870UWC-15C	JVP	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	1.39	1.25	1.09	.95
404582	MCDL-1860UWC-15C	JVP	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	1.39	1.25	1.09	.95
2167429	MVL-914MW	UNI	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.2	4000	528	50	1.95	1.75	1.49	1.25
2167390	MVL-904MW	UNI	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	4000	528	30	.99	.89	.79	.65
2205296	MCD-10003URC	JVP	2	Red	Water clear	10mm	0.394/10	0.47	1.00	0.10	1.9	1500	660	20	1.09	.99	.79	.69
2205309	MCD-10003UEC	JVP	2	Orange	Water clear	10mm	0.394/10	0.47	1.00	0.10	2.0	2000	625	20	1.09	.99	.79	.69
2205317	MCD-10003UYC	JVP	2	Yellow	Water clear	10mm	0.394/10	0.47	1.00	0.10	2.0	1800	589	20	1.09	.99	.79	.69
2205325	MCD-10003BC	JVP	2	Blue	Water clear	10mm	0.394/10	0.47	1.00	0.10	3.5	3000	470	20	1.25	1.09	.89	.79
2205333	MCD-10003PGC	JVP	2	Green	Water clear	10mm	0.394/10	0.47	1.00	0.10	3.5	11000	525	20	1.25	1.09	.89	.79
2205341	MCD-10003UWC	JVP	2	White	Water clear	10mm	0.394/10	0.47	1.00	0.10	3.5	9000	—	20	1.25	1.09	.89	.79

RGB High-Output LEDs

JAMECO ValuePro

Figure images on previous page ★ Web Code: RKK

Part No.	Cross Ref. No.	✳Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing 1	10	100	500
2211119	MSL-504RGB-4P*	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.05	2.0/3.4/3.4	2000/3000/1200	625/525/470	25	$1.75	$1.59	$1.39	$1.25
2211127	MSL-504RGB-4P**	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.05	2.0/3.4/3.4	2000/3000/1200	625/525/470	25	1.75	1.59	1.39	1.25
2125181	MCDL-5T8R6G5B6C*	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.34	1.11	0.028	2.25/3.5/3.5	3500/4000/2000	624/525/470	20	2.49	2.25	1.95	1.75
2128500	MCDL-5013RGBC-TL-A	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	0.78	0.05	2.0/3.5/3.5	3000/5000/1000	628/525/470	25	2.49	2.25	1.95	1.75
2210829	MCDL-5T8R6G5B6C-CA**	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.34	1.11	0.028	2.25/3.5/3.5	3500/4000/2000	624/525/470	20	2.19	1.95	1.75	1.49
2157271	MCDL-5013RGBW-B	JVP	1	Red/Green/Blue†	Diffused	T1 ¾	0.197/5	0.30	1.00	0.10	2.3/3.5/3.5	300/300/300	630/525/470	40	2.25	1.95	1.75	1.49
2152163	MCDL-833RGBW-B	JVP	1	Red/Green/Blue†	Diffused	10mm	0.394/10	0.43	1.00	0.10	5.0/5.0/5.0	700/800/400	625/525/470	20	2.25	1.95	1.75	1.49

*Common Cathode   **Common Anode   † Auto blink/color change function

Standard-Output LED Circuit Board Indicators (CBI)

Dialight

NEW MARKED IN PINK   Closeout

Fig. 1   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6   Fig. 7   Fig. 8   Fig. 9

✳ Order in multiples of 10

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing 1	10	100	1000
2183082	551-3107	1	Yellow/Green*	Diffused, tinted	T1	0.119/3	0.28	0.17	0.100	2.1/2.1	4.3/6.3	585/565	80	✳	$.09	$.07	$.05
1943609	553-0222	2	Green (2 LEDs)	Diffused, tinted	T1	0.119/3	0.38	0.17	0.100	1.9	1.6	565	60	✳	.12	.09	.07
1716334	553-0711	2	Red/Grn (2 LEDs)*	Diffused, tinted	T1	0.119/3	0.38	0.17	0.100	2.0/2.1	4.7/10	635/565	50	.29	.25	.19	.15
2133552	550-1206	3	Yellow	Yellow diffused	T1 ¾	0.197/5	0.24	0.24	0.100	1.9	1.8	583	50	.29	.25	.19	.15
2183040	550-1306	3	Green	Green diffused	T1 ¾	0.197/5	0.24	0.24	0.100	1.8	1.8	565	50	✳	.15	.12	.09
2183058	550-3006	3	Red/Green*	White diffused	T1 ¾	0.197/5	0.25	0.25	0.100	1.8/2.1	90/40	660/565	60	✳	.19	.15	.12
2183023	550-0002-820	4	Red/Yel (2 LEDs) horiz.	Diffused, tinted	T1 ¾	0.197/5	0.24	0.49	0.100	1.6/1.7	7/7	660/585	60	✳	.12	.09	.07
2183496	550-0004-826	5	Yellow (4 LEDs) horiz.	Tinted, non-diffused	T1 ¾	0.197/5	0.98	0.24	0.100	1.7	7	585	55	.79	.69	.59	.49
2183533	550-0004-842	6	Red/Yel./Grn. (R/G)	Tinted, non-diffused	T1 ¾	0.197/5	0.98	0.24	0.100	1.7	7	585	55	1.95	1.75	1.49	1.25
2183146	561-1101-070	7	Red	Tinted, non-diffused	T1 ¾	0.197/5	0.70	0.28	0.100	1.8	2.0	635	50	✳	.12	.09	.07
2183154	561-1301-070	7	Green	Tinted, non-diffused	T1 ¾	0.197/5	0.70	0.28	0.100	1.8	1.8	565	50	✳	.12	.09	.07
1717311	566-0307	8	Yellow	Diffused, tinted	2mmx5mm	—	0.3	0.3	0.100	2.1	3.5	583	110	✳	.07	.05	.03
2203311	GB310	9	100 PCS PCB	Housing LEDs	T1, T1 ¾ multiple LEDs, R/A, straight, various colors									9.95	8.95	7.95	5.95

*Bi-color

Power LED Driver Module
velleman

- Delivers accurate constant current required by most high power LEDs
- Input volt.: 6-12VAC/9-18VDC   • Power consumption: 650mA max.
- High efficiency due to switch mode principle
- Built-in rectifier for easy connection to AC source
- Also suited as fixed current NiCd/NiMH battery charge circuit
- Constant current source: 350mA or 700mA   • Short-circuit protected

Part No.	Mfr. Part No.	Description	Size ("L x "W x "H)	1	5
2006932	K8071	1-watt/3-watt module kit	1.8 x 1.2 x 0.64 ..... $13.95	$12.95

10-Watt Constant Current LED Driver

- Type: AC – DC   • Input volt.: 100-240VAC @ 50-60Hz
- 3-watt LED drivers can drive 2 to 8 1-watt LEDs or 1 to 3 3-watt LEDs   • Operating temp. range: -20°C to 40°C
- 10-watt LED drivers can drive 3 to 8 1-watt LEDs
- UL/CUL/CE approved
- Plug in type, 7 ft. cable with 2.1mm x 5.5mm center positive plug

Part No.	Mfr. Part No.	Description	Output Volt./Curr.	1	5
2006879	LD-PI3536AF	10-watt LED driver	3-36VDC @ 350mA .. $17.95	$15.95

✳ JVP = Jameco ValuePro | LTO = Lite-On | UNI = Unity Opto Technology | VSH = Vishay

LIGITEK **MCD** High Power LEDs with Heat Sink

- Superior high-flux output and high luminance
- Lambertian or 'High Dome' LED has a high hemispherical dome with a wider 140° viewing angle • Represents Star form factor with heat sink
- High dome series projects a wider and clearer light beam • ESD protection

★ **Web Code: HPL**

2096851

Part No.	Mfr.	Mfr. Part No.	Power (W)	Color	Volt. @ Curr. (Vf @ If)	Luminous Flux (lm)	Viewing Angle (°)	1	10	25
2096843	MCD	MCDL-L20-350HPCWS	1	White	3.2 @ 0.35A	90	140	$5.49	$4.95	$4.49
2096851	MCD	MCDL-L20-350HPWWS	1	Warm white	3.2 @ 0.35A	86	140	5.49	4.95	4.49
2006908	Ligitek	L-HP3PW	3	White	3.2 @ 1A	120	90	7.95	6.95	6.25
2197767	MCD	MCDL-L20-750HPCW	4	White	3.7 @ 1A	220	140	9.95	8.95	8.49
2197775	MCD	MCDL-L20-350HP3RE	2	Red	2.4 @ 1A	80	140	7.95	7.49	6.95

(Pricing header spans columns 1, 10, 25)

JAMECO ValuePro Water Clear Lens RGB LEDs ★ *Web Code: RKK*

Now you can have red, green, and blue (RGB) colors from one single LED that provides high radiant power and intensity.

Complete selection of LEDs on pages 19-24

2125181

- LED size: T1¾ (5mm) • Lens color: water clear • 4 lead connection

Part No.	Mfr. Part No.	Type	1	10	100
2125181	MCDL-5T8R6G5B6C	Common cathode	$2.49	$2.25	$1.95
2128500	MCDL-5013RGBC-TL-A	Common anode	2.49	2.25	1.95

THINGM **M** BlinkM Programmable Smart LEDs

2123629 **2123645** **2123637** **2123653**

Choose virtually any color, fade between two colors or make your own blinking sequence. No knowledge of programming or electronics required.

2123645/2123637/2123653: 24-bit, 4-pin I²C interface

★ *Web Code: SLS*

Part No.	Mfr. P/N	Description	1	5
2123629	LinkM	USB programmer, 4-pin 0.1" I²C, driverless	$29.95	$27.95
2123645	MiniM	6000 mcd, 120° FOV, 3.6-5V op. volt, 60mA max	12.95	11.95
2123637	BlinkM	8000 mcd, 140° FOV, 3.6-5V op. volt, 60mA max	13.95	12.95
2123653	MaxM	445,000 mcd, 30° FOV, 5-24V op. volt, 3A max	24.95	23.49

JKL Festoon LED Lamps and Sockets ★ *Web Code: FES*

- Scratch and shock resistant glass encapsulated
- Size: 2113261: 43mm
  2204322: 31mm
  2204306: 39mm
  2204314: 44mm
  2204331: 42mm

2204322

Shown with Socket (sold separately)

Lamps

Part No.	Mfr. Part No.	Voltage @ Current	Color	Lumens	1	10
2113261	LE-0603-02W	12VDC @ 20mA	White	10.0	$4.95	$4.49
2204322	LE-1031-02W	12VDC @ 20mA	White	7.6	5.95	5.49
2204306	LE-0909-11NW	12/24VDC/AC @ 45mA	Neutral White	43	5.95	5.49
2204314	LE-0909-14NW	12/24VDC/AC @ 45mA	Neutral White	43	5.95	5.49
2204331	LE-3042-02-WW	12VDC/AC, 24VDC @ 50mA	Warm White	65	4.95	4.49

Sockets

Part No.	Mfr. Part No.	Description	1	10	50
2113367	2910F-47	Fits 40-44mm lamps, 1.97"L x .66"W x .76"H	$.99	$.89	$.75
2204605	2910F-42	Fits 38-43mm lamps, 1.97"L x .66"W x .76"H	.99	.89	.75

★ *LED Light Strips — Enter Web Code BDZ*

macetech.com Macetech LED Module

- 10-bit PWM, current and automatic overtemperature controls
- Shiftbrite 2.0 RGB LED module, 8000mcd brightness per color
- 5.5-9V, integrated voltage regulator
- PCB size: 0.8" x 0.8"

★ *Web Code: MTH*

Part No.	Mfr. Part No.	1	5
2173790	MTSBR003	$5.95	$5.49

JKL 12-24V LED Dimmer

Control the brightness of single channel constant voltage LED devices and fixtures operating at 12-24VDC. Dim from 100% full brightness to 20% brightness without flickering. Good for display cases, architectural and cove lighting applications.

- 8 amps maximum load • Size 2.0"L x 3.0"W
- Operating temperature: 0°F – 140°F

Part No.	Mfr. Part No.	1	5
2153140	ZDM-01	$16.95	$14.95

LUNASEA LIGHTING 12" Slim Aluminum Light Bar Strips

Equivalent to a standard 40W light bulb!

- Ultra bright LEDs
- Consumes only 5W
- Stylish modern design
- USB mini-B connection
- Operating voltage range: 10-30VDC • Aluminum bar with glass cover
- Up to 6 bars can be daisy-chained together with P/N 2177635
- Life expectancy: over 50,000 hours

Part No	Color	Brightness	1	5
2177571	Cool white	408 lumens	$29.95	$26.95
2177580	Warm white	360 lumens	27.95	26.95

Part No	Description	1	10
2177635	6" mini USB connector cord	$3.49	$2.95

Digitra Ultra Brite LED Module with Built-In LED Driver ★ *Web Code: HPL*

An all-in-one solution to your high power LED lighting needs! Connect directly to any 12V power supply. Only at 1" x 1.25" in size and linkable up to 30 modules!

Part No.	Mfr. Part No.	#Leds	Power	Volt.	Color	Viewing Angle	lm	1	5
2125763	LHA-06B12-N-00	6	150mA	12*	White	120°	87	$9.95	$8.95

*Unregulated 12V

JKL 3-LED Module and Ambient Light Switch

2204349: 12VDC per module @ 45mA
Color temperature: 6000k
LED viewing angle: 120 degrees
2204293: 12 or 24VDC operation;
Load current rating: 8A
Trigger range: 85 lux ON - 215 lux OFF

2204349 **2204293**

Part No.	Mfr. Part No.	Description	1	10
2204349	ZM-1968-CW	Water resistant LED module	$4.95	$4.49
2204293	ZCTR-04	Ambient light switch	19.95	17.95

JAMECO ValuePro 1" x 1.56" LED Backlight

- IC compatible • D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA
- View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA

Part No.	Cross Ref. No.	LED Material	Emitting Color	Lens Color	1	10	100
302535	LT1F24-A2-S8	GaP	Green	Clear	$1.49	$1.25	$1.09

White LED Backlight Modules

- Near-uniform light output
- 3V @ 20mA • 3.5mm thick

NEW MARKED IN PINK **2214379**

Part No.	Mfr. Part No.	Size (L" x W")	1	5
2214379	1626	1.57 x 0.47	$2.49	$2.25
2214352	1622	2.95 x 0.91	2.95	2.79
2214361	1621	3.39 x 1.77	3.49	3.25

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Optos

Optos

LED Drivers, Boards and Accessories
Drive and control low-high power LEDs with ease.

| 2192165 | 2192157 | 2192173 | 2192181 |
| 2192131 | 2192149 | 2192190 | 2192202 |

Part No.	Mfr. Part No.	Description	1	5
2192165	DIM4-RV0	LED dimmer, on-off dusk-dawn 355Hz PWM controller, input: 6-48VDC	$17.95	$15.95
2192157	DIM5-RV0	PWM continuous LED dimmer, input: 6-48VDC, basic 355Hz PWM control	16.95	15.49
2192173	TSW1-RV2	LED proximity touch switch controller, input: 8-48VDC, 3mA consumption	15.95	14.95
2192181	DDC1-RV0	Dusk to dawn LED remote controller, input: 8-48VDC, 3mA consumption	10.95	9.95
2192131	DRV5-RV1ADJ1700	30W Adjustable LED driver, 100-1700mA adjustment, output protected	11.95	10.95
2192149	DRV5-RV1-700	30W LED driver, 700mA constant current output, output protected	9.95	8.95
2192190	LED5-RV0	440 Lumen LED board, two 3W LEDs, warm white, 7Vf, 700mA current	6.95	5.95
2192202	LED6-RV0	440 Lumen LED board, two 3W LEDs, neutral white, 7Vf, 700mA current	6.95	5.95

Assembled Flex-Lite Colored LED Cables
★ **Web Code: FLX**
CLOSEOUT

- Assembled Flex-Lite LED cable kits
- Sealed LEDs in clear flexible silicon gel
- Applications: lighting art, accent lighting
- Includes power supply, power cable and mounting hardware • Length: 6'
- * Square: 0.41" x 0.5"; Round: 0.5" diameter

Just Plug It In

Red (Light On)

Part No.	Mfr. Part No.	Color	Voltage	Type*	mcd/ft.	Price
2131531	RL-12F-02-ASSBLY	Amber	12VDC	Square	7200	$14.95
2131514	RL-12F-08-ASSBLY	Yellow	12VDC	Square	7200	14.95
2131549	RL-12F-04-ASSBLY	Green	12VDC	Square	18000	14.95
2131602	RL-15F-05-ASSBLY	Blue	110VDC	Square	3960	14.95
2131653	RL-12R-08-ASSBLY	Yellow	12VDC	Round	7200	14.95
2131741	RL-15R-05-ASSBLY	Blue	110VDC	Round	3960	14.95

RGB Controller and LED Strips
- 12V input individually controllable LEDs
- LED strips suitable for indoor & outdoor use

NEW MARKED IN PINK | **JAMECO ValuePro**
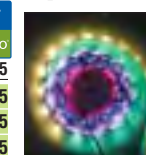
Part No.	Description	1	5
2215224	1 meter RGB LED strip with 60 LEDs	$9.95	$8.95
2213860	12V RGB controller for LED strips	89.95	79.95
2213851	5 meter RGB LED strip with 180 LEDs	129.95	119.95
2213843	5 meter RGB LED strip with 240 LEDs	169.95	149.95

2213851

evluma LED Module
Designed for superbright illumination applications.
- 16 LEDs in 4 clusters on heatsink • 2160 Lumens, white
- 55VAC @ 70mA, 120-277VAC thru TMP circuit • 180k mcd

Part No.	Description	1	5	25
2179374	4 cluster LED assembly module	$10.95	$9.95	$8.95

Infrared & Visible Light Emitters & Detectors
- Use for remote control and/or for fiber optics

Fig. 1   Fig. 2   Fig. 3   Fig.4   Fig. 5   Fig. 6   Fig. 7   Fig. 8

★ **Web Code: VAP**

✻ Order in multiples of 10
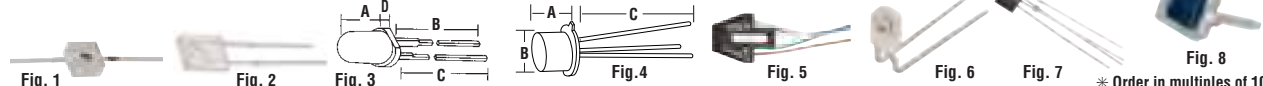
Part No.	Product No.	*Mfr.	Fig.	Description	Size	Diameter inch/mm	A	B	C	D	Forward Voltage @ Current	Wavelngh nm	mWatts	Pricing 1	10	100
2099403	PS5022	JVP	1	Phototransistor	Dome	0.06/1.7	0.13	0.35	0.35	—	5.0 @ 20mA	880	1	✻	$.12	$.10
790057	LTE-302	LTO	2	Infrared emitter diode (GaAs) side look	Dome	0.06/1.5	0.23	0.63	0.63	0.18	1.2 @ 20mA	940	40	✻	.17	.12
112150	LIR2043	LIG	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2 @ 20mA	940	5	✻	.19	.15
372710	UT0383-41-940	JVP	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3 @ 50mA	940	13	.29	.25	.19
1950825	L-34F3CS	JVP	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.20	1.00	1.06	0.04	1.2 @ 20mA	940	80	.39	.35	.29
112176	LPT2023	LIG	3	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	30 @ 0.1A	940	100	.39	.35	.29
2125261	TSHA4400	VSH	3	Infrared emitter diode (GaAlAs) water clear	T1	0.114/2.9	0.13	0.90	1.00	0.04	1.5 @ 100mA	875	20	.35	.29	.25
2120410	RPT-38PB3F	RHM	3	Phototransistor	T1	0.125/3	0.18	0.95	0.98	0.03	5 @ 30mA	800	150	✻	.15	.12
1872265	OP505A	OPT	3	Infrared silicon phototransistor	T1	0.125/3.2	0.20	0.50	0.50	0.03	30VBRCEO @100µA	850	100	.79	.69	.59
2162548	LTE-2871	LTO	3	Infrared emitter diode	T1 ¾	0.197/5	0.29	1.00	1.03	0.03	1.6 @ 20mA	940	90	.59	.49	.39
1623349	SFH484-2	SYL	3	Infrared emitter diode	T1 ¾	0.197/5	0.30	0.50	1.14	1.07	1.5 @ 100mA	880	25	.75	.65	.55
372737	UT1883-81-880	JVP	3	Infrared emitter diode (GaAs) water clear	T1 ¾	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.35	.29	.25
1471138	TSHG8200	VHS	3	Infrared emitter diode	T1 ¾	0.197/5	0.30	1.00	1.05	0.07	2.3 @ 1A	830	250	.99	.89	.79
1872151	OP290A	OPT	3	Infrared emitter diode	T1 ¾	0.195/5	0.30	0.75	1.00	0.04	4.0 @ 1.5A	890	333	1.29	1.19	1.09
106526	LVIR3333	LIG	3	Infrared emitter diode (GaAs)	T1 ¾	0.200/5	0.34	0.78	0.84	0.04	1.2 @ 20mA	940	8	✻	.19	.15
372762	UT1883-81-940	JVP	3	Infrared emitter diode (GaAs)	T1 ¾	0.200/5	0.30	0.88	0.94	0.04	1.3 @ 50mA	940	16	.29	.25	.15
1110914	TSAL6100	VSH	3	High power infrared emitting diode	T1 ¾	0.23/5.8	0.30	1.04	1.04	0.04	1.35 @ 100mA	940	210	.49	.45	.35
1950622	TSHA5502	VSH	3	Infrared emitter diode (GaAlAs)	T1 ¾	0.200/5	0.30	0.97	1.04	0.04	1.5 @ 1mA	870	210	.39	.35	.29
373001	UT1893-91-0125	JVP	3	Infrared phototransistor	T1 ¾	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	870	20	.35	.29	.25
2129385	UT1893-45-0125	JVP	3	Infrared phototransistor	T1 ¾	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	860/940	20	.35	.29	.25
2205350	SFH205	JVP	3	PIN silicon photodiode	T1 ¾	0.201/5	0.272	0.70	0.75	0.04	1.3 @ 28mA	950	150	1.09	.99	.89
1872441	OP999	OPT	3	PIN silicon photodiode	T1 ¾	0.205/5.3	0.31	0.69	0.75	0.04	1.2 @ 1mA	200	100	1.19	1.09	.99
1108144	TEPT5600	VSH	3	Silicon NPN phototransistor	T1 ¾	0.197/5	0.30	0.97	1.03	0.04	6 @ 20mA	570	100	.65	.55	.45
120221	BPW77NA	VSH	4	NPN phototransistor	TO-18	0.18/4.69	0.24	0.19	0.52	0.01	70VCEO @ 50mA	850	250	2.75	2.49	2.25
1872759	OPB704WZ	OPT	5	Infrared emitting diode/phototransistor	—	0.61/15.5	0.61	24	24	—	1.7 @ 40mA	890	68	4.95	4.49	3.95
2159904	PT101SCOLZOF	SHP	6	Phototransistor rect. R/A	Rect.	0.118/0.7	—	0.56	0.61	—	3.5 @ 2mA	620	5	.35	.29	.19
874939	QRD1114	FSC	7	Reflective object sensor phototransistor	Rect.	0.24/6.1	0.18	0.17	0.5	—	1.7 @ 20mA	940	100	1.29	1.09	.89
1621132	BPW34	SYL	8	PIN silicon photodiode chip	Square	—	0.075	0.157	0.118	—	1.3 @ 80µA	850	150	.99	.89	.79

*FSC = Fairchild Semi | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | OPT = Optek | RHM = Rohm | SYL = Sylvania | SHP = Sharp | VSH = Vishay

Optos (sidebar)

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9
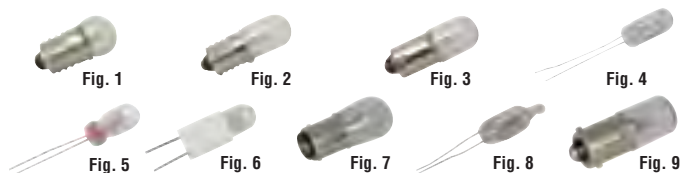
Incandescent Lamps
JAMECO ValuePro ★ Web Code: DBH

Part No.	Cross Ref.	Fig.	Description	Volts	MSCP	1	10	100
209390	14	1	G3 1/2 miniature screw	2.47	.50	$.45	.39	.35
209402	40	2	T3 1/4 miniature screw	6.3	.50	.49	.45	.39
209437	47	3	T3 1/4 miniature bayonet	6.3	.50	.49	.45	.39
141073	2182	4	T1 3/4 wire terminal	14	.34	.49	.45	.39
1943916	CM8-A241	5	T1 wire terminal w/ blue cap	12	.15	.39	.35	.29
141066	2200	4	T1 3/4 wire terminal	5	.05	.49	.45	.39
210008	7328	6	T1 3/4 bi-pin	6	.60	.69	.59	.55
210032	7382	6	T1 3/4 bi-pin	14	.30	.65	.59	.55
2203303	6S6DC	7	S6 DC Bayonet Base	120	4.3	2.49	2.25	1.95

Neon Lamps
JAMECO ValuePro ✳ Order in multiples of 10 ★ Web Code: VAD

Part No.	Cross Ref.	Fig.	Description	Voltage	1	10	100
27351	A1A (NE-2)	8	Wire terminal .5mA, 12mm L	65-120	$.35	.29	.25
210260	A9A (NE-2E)	8	Wire terminal .7mA	65-120	✳	.19	.15
210315	C2A (NE-2H)	8	Wire term. 1.9mA, 18mm L	65-120	.35	.29	.25
2203291	B2A (NE-51H)	9	T3 Bay Base 1.2mA	105-125	1.19	1.09	.89

Cluster Type T1-3/4 LED Lamp
JAMECO ValuePro

- Cluster type 4 orange-red 5mm LEDs
- Lens: red tinted transparent
- Vf @If = 9V @ 20mA (typical)
- 21" long-2-wire with connector
- 634mm
- Luminous uniformity: 16cd
- 26mm diameter case size
- 30 degree viewing angle

Part No.	Cross Ref. No.	Description	1	10	100
2155276	BVM-R26QT4	LED cluster lamp	$.99	$.89	$.75

650nm Laser Diodes

2120428: Output power - 5mW min.; oper. volt. & current: 2.6V max @ 70mA; wavelength: 650nm (typ); beam divergence: 8° from center

Class IIIa Laser Product

2210204: Output power < 5mW; volt./curr.: 3VDC/150mW wavelength: 650nm (typ); 2 wire connection

Part No.	Mfr.	Mfr. Part No.	1	10	100
2120428	Lite-On	LTLD505T ...	$2.95	$2.59	$2.39
2210204	ValuePro	154145	3.49	2.95	2.59

ROHM 785nm AlGaAs Laser Diode

- Monitor current: 0.2mA (3mW, 15V_R(PIN))
- Perpendicular divergence angle: 45°
- Peak wavelength: 785nm (typical)
- Power: 5mW • Parallel divergence angle: 15°

OSRAM Infrared Pulsed Laser Diode

- Emmission wavelength: 905nm
- Pulse width (FWHM): 100ns
- Peak output power: 25W • Oper. volt.: 4.3V typical
- Beam divergence (perpendicular to pn junction: 25°)
- Typical applications: hand-held laser range finders, traffic surveillance, professional laser sensors, automotive applications. • Threshold current: 0.75A

Part No.	Mfr. Part No.	1	10	25
2192763	SPL-PL90	$12.95	$11.49	$9.95

- Typical application: optical LAN (fiber channel)
- Voltage and current: 1.9V (typical) @ 45mA

Part No.	Mfr. Part No.	1	10	100
2135398	RLD-78PIT	$1.95	$1.75	$1.49

alpec 5mW Red Laser Pointers
Class IIIa Laser Product

223731

Part No.	Mfr. P/N	Case Color	nm	Range	Size (L" x Dia.")	1	5
223731	5608★	Black	532	>6000'	5.6 x 0.5	$79.95	$74.95
2215566	4077	Silver	650	3000'	.75 x 3.5	34.95	29.95
2215558	4070	Silver	650	3000'	.75 x 3.5	29.95	26.95
153605	4012	Black	670	1500'	5.2 x 0.4	21.95	19.75
2205544	4061	Satin Silver	650	1500'	5.2 x 0.4	14.95	13.49
2205552	4000	Black	630 - 650	1500'	5.2 x 0.4	14.95	13.49
2215523	6290	Matte Silver	650	1500'	1.75 x 3 x 0.6	10.95	9.95
2215540	6203	Black	650	1500'	3.6 x 0.9 x 0.25	4.95	4.49
2215531	6206	Silver	650	1500'	3.6 x 0.9 x 0.25	4.95	4.49
2215603	4823-R	Red	650	1500'	0.8 x 0.5 x 3.5	3.95	3.49
2215611	4824-W	White	650	1500'	0.8 x 0.5 x 3.5	3.95	3.49
2215620	4825-Y	Yellow	650	1500'	0.8 x 0.5 x 3.5	3.95	3.49

★Green

JKL Wedge Base LED Lamp
★ Web Code: WBL

Wedge LEDs can replace filament bulbs commonly found in automotive and water craft applications. The LEDs feature an integrated diode for reverse voltage protection and a current limiting resistor.

Part No.	Mfr. Part No.	Volt. @ Current	Color	Wavelength	Lumens	1	10	100
2123371	LE-0503-03W	12VDC @ 15mA	White	X=0.3; Y=0.29	2.5	$1.49	$1.35	$1.19

JKL 12" Fluorescent Lamp & Power Supply

Now you can easily and affordably mount these fluorescent lamps to add cool cold-cathode effects and give your display a richer look and feel.

★ Web Code: ABP

2077466
2077440

Part No.	Mfr.	Mfr. Part No.	Description	Size (L" x Dia.")	1	10	25
2077466	JKL	FLC12-12	Cool white lamp†	12 x .120	$1.95	$1.75	$1.49
2077440	Velleman	FLPS	12VDC power supply for above lamps		6.95	5.95	4.95

† 1" solder terminals

Ultraviolet Lamp & Ballast (Rapid Start)
JAMECO ValuePro

2100128
2100005

Part No.	Mfr.	Product No.	Description	1	10	100
2100128	ValuePro	TUV25W/G25	20" T5 ultraviolet lamp	$2.95	$2.59	$2.39
2100005	Lightwave	LW20EB20-120	25W rapid start ballast	2.95	1.95	1.59

Multi-Chip Based LED Lamps
JAMECO ValuePro

T1¾ - Midget Flange (Polarized)

392690

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392690	585-1413	Yellow	14	30	23	585	$2.95	$2.59	$2.29
392681	585-1313	Green	14	28	70	565	2.95	2.59	2.29
392702	585-1215	Red	28	16	64	660	2.95	2.59	2.29

650nm Line and Dot Laser Diodes

143845/173243:
Class IIIb Laser Product

- Focus adjustable with locking set screw
- Wattage: 5mW
- Oper. volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

JAMECO ValuePro

173243

143845: Line laser module
- Laser line width: 1mm • Laser fan angle: 60°

173243: Cross hair laser diode module
- Laser fan angle: 60° • Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

1940660: Module regulated power supply
- Output: 5VDC @ 1A
- Short-circuit protection
- Input voltage: 90-264VAC or 190-250VAC switchable
- Size: 2.6"H x 1.3"W x 1.9"D
- Weight: 0.6 lbs.

Laser Diode

143853: Laser module mount
- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment

143853

Part No.	Description	1	5
143845	Line laser diode module	$139.95	$124.95
173243	Cross hair laser diode module ..	149.95	134.95
1940660	Power supply, 5VDC/1A	11.95	10.95
143853	Laser diode module mount	69.95	59.95

★ *Laser Products — Enter Web Code LAZ*
★ *Soldering Irons — Enter Web Code QAS*
★ *Rocker Switches — Enter Web Code VBU*

153605
2205544
2215523
2215603

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Optos

Panel Mount Indicators (LED, Incandescent, Neon)

★ **Web Code: SOL**

These bright indicator lights come equipped with quick and easy connections. Available in many different types for your specific needs.

- 14/28/125/250/277/480 volts
- Red, amber, yellow, green, blue or white
- .187"/.250" tabs; clamp screw; stripped & tin wires termination
- UL/CUL/TUV/CE approved

KF 12/13 series:
- 22mm (0.88") mounting hole
- Housing: PBT w/ 20% glass
- Diffuser: polyacetal
- Hex nut and panel seal mounting hardware
- Lens and hex nut: polycarbonate

Fig. 1 · Fig. 2 · Fig. 3 · Fig. 4 · Fig. 5

Part No.	Mfr. Part No.	Fig.	Voltage (V)	Color	Mounting Hole	Type	Termination	1	10	100
2129511	2935-1-12-393-1	1	14	Red	0.51"	Incandescent	6" wires	$.99	$.89	$.79
2126432	KE12-4-03-01010	2	14	Red (translucent lens)	0.63"	LED	0.250" tabs	1.09	.99	.89
2126424	KE12-4-03-01020	2	14	Amber (translucent lens)	0.63"	LED	0.250" tabs	1.09	.99	.89
2126416	KE12-4-03-01040	2	14	Green (translucent lens)	0.63"	LED	0.250" tabs	1.09	.99	.89
2126408	KE12-4-03-01050	2	14	Blue (translucent lens)	0.63"	LED	0.250" tabs	1.09	.99	.89
2126483	2415-3-12-216-1	3	125	Red	0.312"	LED	0.187" tabs	1.09	.99	.89
2129545	4416-1-20-010-1	4	250	Red	0.250"	LED	9" wires	.69	.59	.49
2126512	2954-X-11-373-10	5	480	Red	0.50"	Neon	15" wires	.69	.59	.49

Neon Bulb

★ **Web Code: NOB**

Part No.	Mfr. Part No.	Fig.	Description	1	10	100
2129553	9950-X-00-00000-0002	6	125V Neon bulb with 46k resistor, 2" wires	$.49	$.39	$.29

Fig. 6

JAMECO ValuePro — LED Panel Mount Indicators

★ **Web Code: SOL**

- Easy panel installation
- Panel/status/instrument indicators

141111/141129/141137: Chrome housing

141111 · 141129/141137 · 637183

Part No.	Cross Ref. No.	Mfr.	LED Size	Color	L	A	B	Mounting Hole	Vf @ If	1	10	100
141111	L922SRD	JVP	T1	Red	.56	.34	.25	.23"	2V @ 20mA	$1.09	$.99	$.85
141129	L913RD	JVP	T1	Red	.56	.39	.32	.24"	2V @ 20mA	1.22	1.09	.99
141137	L917RD§	JVP	T1 ¾	Red	.70	.55	.47	.31"	2V @ 20mA	1.25	1.09	.99
637183	UT2U1G-H113-R801-W05†	JVP	T1 ¾	Green	.55	5.5	5.5	.24"	12V @ 10mA	1.09	.99	.89
2158936	UT2U1W-H113-R801-1739	LED	T1 ¾	White	.55	5.5	5.5	.24"	12V @ 30mA	1.09	.99	.89
2215427	11-2426B	LKG	T1 ¾	Green	.66	6.0	6.0	.25"	12-14V range	2.95	2.59	2.25

† Has internal resistor to run 12V @ 10mA § Additional panel mounting hardware, P/N 2182602 (pg 79)

JAMECO ValuePro — 12V Incandescent Panel Mount Lamps

★ **Web Code: JBJ**

- **215715:** Solder terminals - 0.196" (5mm)

Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	Wire Length	1	10	100
2181360	NN792-12V-12CM-RED§	1	Red	9/32" (7mm)	4.7" (120mm)	$1.49	$1.25	$1.09
2158506	F151-12G§	1	Green	9/32" (7mm)	Terminals	.99	.89	.79
2181378	FNN792-12V-12CM-GRN	1	Green	9/32" (7mm)	4.7" (120mm)	1.49	1.25	1.09
215715	R9-71B-05-12V-R	2	Red	5/8" (16mm)	Terminals	2.25	1.95	1.79

§ Additional panel mounting hardware, P/N 2182688 (pg 79)

Fig. 1 · Fig. 2

30 ASSORTED LED INDICATORS GRAB BAG   P/N 2125616 $9.95

JAMECO ValuePro — Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

1585485:
- Rectangular
- 6" wire leads
- Size: .91"L x .38"W x .77"D

★ **Web Code: JBJ**

※ **Order in multiples of 10**

215803 · 1585485

Part No.	Cross Ref. No.	Color	1	10	100
215803	R9-71N-05-120V-R	Red	$1.95	$1.75	$1.49
215812	R9-71N-05-120V-Y	Yellow	1.95	1.75	1.49
215830	R9-71N-05-120V-G	Green	1.95	1.75	1.49
2202651	2 red, 1 yellow, 1 green		5.95	5.39	4.29
1585485	32501001714	Green ※		.19	.15

Incandescent/Neon Panel Mount Lamps

- Mounting hole: .310"Dia.
- Color: red

2099788: Incandescent type
- 2.7VDC @ 60mA

2179737: Neon type
- 105VAC to 125VAC

2099788

★ **Web Code: JBJ**

Part No.	Mfr. Part No.	Lead Wire	1	10	100
2099788	970D00146*	10"	$.49	$.45	$.35
2179737	11-2062B	6"	3.49	2.95	2.59

*Manufacturer: Jameco ValuePro

Dialight — Panel Mount Indicators

NEW — MARKED IN PINK

2183269 · 2182910 · 2182928 · 2183007

The panel mount indicator chart below shows a variety of lens and lamps to complete your lighting requirements.

Panel Indicators	2183269	2183437	2182881	2182872	2182910	2182901	2182899	2182928	2182995	2183007	2183605	2183592	2183613
	$14.95	$14.95	$12.95	$12.95	$12.95	$14.95	$14.95	$6.95	$4.95	$1.09	$14.95	$14.95	$14.95
Voltage for Indicators	110-125VAC	110-125VAC	110-125VAC	110-125VAC	105-125 VAC/VDC	210-250 VAC/VDC	210-250 VAC/VDC	110-125VAC/ 30VDC	1-28VDC	1-28VDC	110-125VAC	110-125VAC	110-125VAC
Lens 2182864	2182952 2182830	2182952 2182830	2182864 2182856 2182848 2182944 2183445 2183584	2182864 2182856 2182848 2182944 2183445 2183584	2182864 2182856 2182848 2182944 2183445 2183584	2182864 2182856 2182848 2182944 2183445 2183584	2182864 2182856 2182848 2182944 2183445 2183584	2183621 2183517 2183525	2182987 2182979	*Lens not Available (See below)	2182864 2182856 2182848 2182944 2183445 2183584	2182864 2182856 2182848 2182944 2183445 2183584	2182864 2182856 2182848 2182944 2183445 2183584
	$10.95	$10.95	$8.95	$8.95	$8.95	$8.95	$8.95	$1.95	$1.95	—	$8.95	$8.95	$8.95
Lamps 2203291	2203303	2203303	209437 209402 209453	209437 209402 209453	2203291	2203291	2203291	392690 392681 392702	392690 392681 392702	392690 392681 392702	2203291	209437 209402 209453	209437 209402 209453
	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10	1 · 10
	$2.49 $2.25	$2.49 $2.25	$.49 $.45	$.49 $.45	$1.19 $1.09	$1.19 $1.09	$1.19 $1.09	$2.95 $2.59	$2.95 $2.59	$2.95 $2.59	$1.19 $1.09	$.49 $.45	$.49 $.45

*Available from Dialight (manufacturer's part numbers are 302-3471, 302-3472, 302-3473 and 302-3475). Jameco doesn't stock these items.

7 & 16-Segment LED Displays

★ Web Code: PBW

NEW MARKED IN PINK

Soldering:
- Soldering bath: not more than 5 sec. @ 260°C
- Soldering iron: not more than 3 sec. @ 300°C under 30W

Single Digit LHDP (2082265)
Single Digit RHDP (7-seg.) (17209)
2-Digit RHDP (2005358)
2-Digit RHDP (16-seg.) (2005382)
3-Digit RHDP (2125229)
4-Digit RHDP (7-seg.) (2006836)

Single Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100
24732	MCD	GNS-3011BH-11	0.30"	Red	CA	10	1.9 @ 20	0.3 @ 20	697	LHDP/RHDP	$.89	$.79	$.69
24782	Ligitek	LSD3211-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24740	Ligitek	LSD3221-11	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
878201	Lite-On	LTS312AHR	0.30"	Hi-eff Red	CA	11	2.1 @ 20	2.0 @ 10	623	RHDP/LHDP	.99	.89	.69
2129713	Ligitek	LSD3H66F-20A	0.30"	AlGaInP Red	CA	10	1.7 @ 30	31 @ 30	630	RHDP	.79	.69	.59
2082265	General Instr.	MAN3620A	0.30"	Orange	CA	11	2.5 @ 20	3.3 @ 10	630	LHDP	.39	.29	.25
335011	ValuePro	UA3041-12	0.30"	Orange	CA	11	2.1 @ 20	3.3 @ 10	635	RHDP	.49	.39	.35
2188895	Hewlett Packard	HDSP-7301	0.30"	Red	CA	10	1.6 @ 25	11 @ 20	640	RHDP	1.49	1.25	.99
1955714	Lite-On	LTS-367R	0.36"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.59	.49	.39
2125245	Vishay	TDSR3163-G	0.40"	Red	CC	10	1.6 @ 30	0.18 @ 30	660	RHDP	.59	.55	.45
334844	ValuePro	UC4041R-11	0.40"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.79	.69	.59
2005411	Lite-On	LTS-4980AHR	0.40"	Hi-eff Red	CC	14	2.1 @ 20	2.2 @ 10	635	RHDP	.49	.39	.29
17209	MCD	GNS-5011BH-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
17187	Ligitek	LSD5051-11	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
335090	ValuePro	UA5651-11	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	.99	.89
334896	ValuePro	UC5641R-11	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.79	.69
334880	ValuePro	UC5641-11-EWRNR	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.79	.69	.59
790639	Lite-On	LTS6460G	0.56"	Green	CA	10	2.1 @ 20	2.4 @ 10	569	RHDP	1.09	.89	.69
334862	ValuePro	UC5621-11	0.56"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.89	.79	.69
1955829	Lite-On	LTS-3403AP	0.80"	Red Gap	CC	18	2.1 @ 20	0.95 @ 10	697	LHDP/RHDP	.99	.79	.65
18753	Ligitek	LSD8151-10	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	LHDP/RHDP	.89	.79	.69
2188879	Hewlett Packard	HDSP-3401	0.80"	Red	CA	13	1.6 @ 20	12 @ 50	655	RHDP	1.09	.99	.89
18737	Ligitek	LSD8164-20	0.80"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.09	.95	.85
2186110	Hewlett Packard	HDSP-4200	0.80"	Yellow	CA	12	2.6 @ 100	3.4 @ 20	586	LHDP	1.95	1.75	1.49
97199	Ligitek	LSD23265-10	2.24"	Red	CA	10	6.8 @ 20	30 @ 20	660	RHDP	4.49	3.95	3.59
97201	Ligitek	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
2202061	SunLED	XDMR57C-A	2.24"	Red	CC	10	3.6 @ 10	189 @ 10	660	RHDP	5.95	5.49	4.95
105591	Ligitek	LSD40054-20 ‡	4.00"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	8.95	7.95	7.15
2202079	SunLED	XDMR100C-A	4.00"	Red	CC	10	3.6 @ 10	110 @ 10	660	RHDP	9.95	8.95	7.95

2-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100
24715	Ligitek	LDD5121-20	0.56"	Red	CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	$1.59	$1.39	$1.19
2125481	China Semi	SD-525R	0.56"	Red	CC	18	1.7 @ 20	1.0 @ 20	655	RHDP	1.25	1.09	.89
24723	Ligitek	LDD5111-11	0.56"	Red	CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
1551509	Hewlett Packard	HDSP-S523	0.56"	Hi-eff Red	CC	18	2.1 @ 20	2.8 @ 20	635	RHDP	2.95	2.59	2.29
24707	Ligitek	LDD5114-20	0.56"	Orange Red	CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.39	1.19
2188887	Hewlett Packard	HDSP-5721	0.56"	Yellow	CA	18	2.1 @ 20	1.8 @ 10	583	RHDP	1.09	.99	.89
1551568	Hewlett Packard	HDSP-5621	0.56"	Green	CA	18	2.1 @ 20	2.5 @ 10	566	RHDP	1.95	1.75	1.49
2005358	Lite-On	LTD-5623BG	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.95	1.75	1.49

3-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100
335055	ValuePro	UN4043-13 EWRS	0.40"	Orange	CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	$.99	$.89	$.79
2125229	ValuePro	LN5643R-11	0.56"	Orange	CA	12	2.1 @ 20	4.5 @ 10	630	RHDP	1.75	1.49	1.25
308224	ValuePro	LM5643R-11RRRN	0.56"	Orange	CC	12	2.1 @ 20	7.4 @ 20	630	RHDP	1.95	1.75	1.49

4-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100
2006836	Ligitek	LFD5221-20/A-PF	0.56"	Red	CA	12	2.1 @ 20	1.0 @ 10	697	RHDP	$1.95	$1.75	$1.59
2005711	Lite-On	LTC-5653G-01	0.56"	Green	CA	12	2.1 @ 20	2.4 @ 10	565	RHDP	3.95	3.59	3.29
335194	ValuePro	UM5624-11-EWRS	0.56"	Green	CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.95	2.49	2.19

2-Digit 16-Segment Alphanumeric LED Display

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10	100
2005382	Lite-On	LTP-4323P	0.40"	Bright Red	CC	20	2.1 @ 20	0.75 @ 10	697	RHDP	$1.49	$1.25	$1.09

* CA-Common Anode/CC-Common Cathode   # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point   ‡ 5 diodes per segment

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LITEON LED Bar Graph Arrays (10 Elements)

697477   2115531   790188

★ Web Code: LBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Number of Elements	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	Pricing 10	Pricing 100
697477	Lite-On	LTA-1000HR	0.20"	Hi-eff. Red	10	20	2.0 @ 20	2.0 @ 10	635	$1.39	$1.25	$1.09
334529	ValuePro	UL10000-HR-RRAK	0.20"	Red	10	20	2.1 @ 20	1.6 @ 10	635	1.39	1.25	1.09
334537	ValuePro	UL10000-Y-EWAK	0.20"	Yellow	10	20	2.1 @ 20	1.1 @ 10	585	1.39	1.25	1.09
2115531	Ledtronics	LBG1000G3B	0.20"	Hi-eff Green	10	20	2.1 @ 10	5 @ 10	565	.99	.89	.79
697469	Lite-On	LTA-1000G	0.20"	Green	10	20	2.1 @ 20	2.0 @ 10	565	1.39	1.25	1.09
1551402	Avago	HDSP-4832	0.20"	Hi-eff. Red, Yellow, Green	10	20	2.1/2.2 @ 20; 2.1 @ 10	3.5/1.9/1.9 @ 10	635/583/566	7.95	6.95	6.25
2188908	Hewlett Packard	HLMP-2655	0.35"	Hi-eff. Red	4	8	1.8 @ 25	45 @ 2	626	1.09	.99	.89
790188	Lite-On	LTL-2620HR	0.35"	Hi-eff. Red	4	16	2.0 @ 20	4.2 @ 10	635	.39	.35	.29

LITEON LED Dot Matrix Displays (5 x 7, 5 x 8 & 8 x 8 Arrays)

5 x 7 Dot Matrix   5 x 8 Dot Matrix   8 x 8 Dot Matrix

★ Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Array Polarity *	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	Pricing 10	Pricing 100
218843	ValuePro	CSM57041T-11	0.7"	Red	5 x 7 CC/AR	12	1.8 @ 20	8.0 @ 20	660	$2.95	$2.49	$1.95
2005497	Lite-On	LTP-757G	0.7"	Green	5 x 7 CC/AR	12	2.1 @ 20	2.0 @ 80	565	2.95	2.59	1.95
2005518	Lite-On	LTP-1557AKA	1.2"	AlInGaP Red Orange	5 x 7 CC/AR	14	2.05 @ 20	3.8 @ 80	621	3.95	3.59	3.29
1955159	Lite-On	LTP-2757AA	2.0"	Green/Red Orange	5 x 7 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	630/565	1.59	1.45	1.29
1955183	Lite-On	LTP-2158AHR	1.9"	Hi-efficiency Red	5 x 8 CC/AR	14	2.1 @ 20	4.0 @ 48	635	4.95	4.49	3.95
2186048	Lite-On	LTP-2558AA-RA	2.3"	Red Orange/Green	5 x 8 CC/AR	28	2.6 @ 20	4.8 @ 80	565/630	3.95	3.59	3.29
2132349	ValuePro	LD788BS-SS22	0.8"	Hi-efficiency Red	8 x 8 CC/AR	16	2.0 @ 10	25.9 @ 10	632	3.95	3.59	2.95
2158573	ValuePro	GNM-19881ASG-11	1.9"	Super Red/Green	8 x 8 AC/CR	24	1.8/2.1 @ 20	3/2.5 @ 10	660/565	12.95	11.95	10.95
2158581	ValuePro	GNM-23881BSG-11	1.9"	Super Red/Green	8 x 8 CC/AR	24	1.8/2.1 @ 20	3/2.5 @ 10	660/565	12.95	11.95	10.95
2151961	ValuePro	GNM-23881BUEPGUB-11	2.3"	Red/Green/Blue	8 x 8 CC/AR	32	2.0/3.5/3.5 @ 20	110/80/55 @ 20	632/520/470	22.95	21.49	19.95

* AC-Anode Column / AR-Anode Row / CC-Cathode Column / CR-Cathode Row

TEXAS INSTRUMENTS LED Dot Matrix with Decoder Driver (4 x 7 Hexadecimal Array)

★ Web Code: HAV

Part No.	Manufacturer	Mfr. Part No.	Character Height	Illuminated Color	Supply Voltage (V)	No. of Characters	Array Polarity	Pins/Leads	Typical mcd	Wavelength nm	Pricing 1	Pricing 10	Pricing 100
32951	Texas Instruments	TIL311	0.27"	Red	5	1	4 x 7 Hex	11	0.1	660	$19.95	$17.95	$15.95

National Semiconductor Monolithic Multi-Digit Array Displays

National's LED numeric arrays are PCB mounted, magnified, monolithic, 7 or 14 segment red digits, with digit heights of 100, 110 and 140 mil (2.54, 2.79, 3.56mm), and are intended for small, low cost numeric indication.

NEW MARKED IN PINK

- Number of digits: 6
- Digit height: 0.100" (2.54mm)
- Lens/magnification: clear, bubble, 2x
- Viewing angle: 25°C horizontal/32°C vertical
- Luminous intensity: 0.40 mcd @ 5mA
- Forward voltage: 1.65V @ 5mA
- Package code: NH
- PCB length: 2.00" (5.80mm)

Part No.	Mfr. Part No.	Description	1	10	50	100
2210976	NSA1166	LED array	$3.95	$3.59	$3.25	$2.95

T1 & T1¾ LEDs & LED Mounting Hardware Kit (560 pcs.)

Includes:
- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 139 and labels
- 10 ea. standard-output LEDs (114673, 34657, 34606, 114681, 104248, 34690, 34711, 34673, 333497, 34761, 104256, 333551, 2006705, 333569, 2133552), pgs 19-21 and LED lens mount (14277), pg 18
- 100 ea. LEDs (202471), pg 19 & (2006730), pg 20
- 100 ea. LED mounting hardware (95513, 23077), pg 18

★ Web Code: CKS

Part No.	Description	Wt. (lbs.)	1	5
84996	560-piece LEDs & LED hardware kit	5.0	$59.95	$53.95

Scott Edwards Electronics, Inc. Organic LED (OLED) Serial Displays

★ Web Code: OSD

High brightness, high contrast, brilliant display. This display operates in wide temperature ranges, consumes low power and has EEPROM storage. Choose from four font sizes, from regular 16 x 2 to huge 8 x 1 characters.

2136382

Part No.	Mfr. Part No.	Characters x Lines	Input Data	Input Voltage (VDC @ mA)	Letters/Backlight	Module Size (in.)	Display Size (in.)	1	5	25
2136382	GLO-216Y	16 x 2 or 8 x 1	9600	3.3 - 5.3 @ 40 (50mA max.)	Yellow/Black	3.2 x 1.4 x 0.2	2.6 x 0.6	$39.95	$37.95	$35.95
2144032	GLO-416Y	16 x 4 or 4 x 1	9600	4.8 - 5.3 @ 50 (60mA max.)	Yellow/Black	3.9 x 2.4 x 0.6	3.0 x 1.0	59.95	57.95	55.95
2157407	MINI-I2C OLED	96 x 16 pixels	400kbit/s	5 @ 27.5	Light Blue/Black	1.2 x 0.6 x 0.2	0.84 x 0.14	19.95	17.95	16.49
2190856	TOY0007	128 x 64 pixels	I²C/serial	3.3 @ 20	Blue monochrome	1.7 x 1.3 x 0.3	1.1 x 0.6	26.95	24.95	23.95

DFROBOT Serial/Parallel LCD Displays

★ Web Code: DFD

- Supply voltage: +5V
- Arduino-compatible

2160374

2160366

Part No.	Mfr. Part No.	Characters/Resolution	Communication	Color Backlight-Lettering	Controller	Size (L" x W")	Pricing 1	Pricing 5
2160374	FIT0127	16 characters x 2 rows	Parallel	Blue-White	KS 0066	3.1" x 1.4"	$9.95	$8.95
2160358	DFR0063	16 characters x 2 rows	I²C/TWI	Blue-White	HD44780U	3.2" x 1.4"	19.95	18.49
2160366	DFR0154	20 characters x 4 rows	I²C/TWI	Blue-White	HD44780U	3.9" x 2.4"	27.95	26.95

2160358

Serial LCD Displays

Scott Edwards Electronics, Inc.

★ **Web Code: QAW**

- For detailed specification sheets, please visit **www.Jameco.com**.
- One-year warranty

Optos

Part No.	Manufacturer	Mfr. Part No.	Characters x Lines	Input Data	Input Voltage (V @ mA)	Letters - Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing 1	Pricing 5
2188967	Newhaven	NHD-0216K3Z-NSW-BBW-V3	16 x 2	300-115200	4.7-5.5 @ 34	White-Blue	—	3.1 x 1.4 x 0.5	2.8 x 1.0	$19.95	$17.95
2118651	Newhaven	NHD-0216K3Z-FL-GBW	16 x 2	9600 (default)	5.0 @ 125	Blue-Yellow/Green	—	3.2 x 1.4 x 0.5	2.5 x 0.6	18.95	16.95
2135638	Matrix Orbital	LK162-12-WB-C166	16 x 2	1200-19200	5.0 @ 9	White-Blue	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	16.95	15.95
2118660	Newhaven	NHD-0126K3Z-FS(RGB)-FBW	16 x 2	9600 (default)	5.0 @ 18	Black-RGB	—	3.2 x 1.4 x 0.5	2.5 x 0.6	21.95	19.95
2154927	Newhaven	NHD-0216K3Z-NS(RGB)-FBWV3	16 x 2	300-115200	4.7-5.5 @ 33	RGB-Black	—	3.1 x 1.4 x 0.5	2.5 x 0.6	23.95	21.49
2118539	Newhaven	C0220BIZ-FS(RGB)-FBW-3VM	20 x 2	9600 (default)	2.7-3.5 @ 1	Black-Red/Green/Blue	—	3.0 x 1.1 x 0.3	2.4 x 0.6	13.95	12.49
158166	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	4.8-5.5 @ 15	Yellow-None	1,2,5	3.1 x 1.9 x 0.8	2.6 x 1.1	68.95	61.95
2188983	Newhaven	NHD-0420D3Z-NSW-BBW-V3	20 x 4	300-115200	4.7-5.5 @ 35	White-Blue	—	3.9 x 2.4 x 0.5	3.4 x 1.6	25.95	23.95
2118686	Newhaven	NHD-0420D3Z-FL-GBW	20 x 4	9600 (default)	5.0 @ 245	Blue-Yellow/Green	1	3.9 x 2.4 x 0.5	3.0 x 1.0	23.95	21.49
281404	Matrix Orbital	GLK12232-25-FGW	122 x 32 w/ graphics	9600-115000	5.0 @ 20	Black-White	1,7	3.9 x 2.4 x 0.4	3.3 x 1.4	69.95	59.95
2118555	Newhaven	NHD-C12832A1Z-FSW-FBW-3V3	128 x 32 pixels	—	2.7-3.3 @ 30	Black-White	8	1.6 x 1.0 x 0.2	1.6 x 0.6	10.95	9.95

†1. For a power supply, Jameco recommends P/N 164101, pg 92
2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)
3. Manual included
4. Connect 16 modules using the same two wire interface
5. EEPROM stores text font, settings and text screen
6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature
7. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface
8. COG (Chip-on-Glass) LCD module

Parallel LCD Displays

JAMECO ValuePro

★ **Web Code: GCG**

Part No.	Mfr.	Mfr. Part No.	Characters x Lines	Character Font	Input Data	Input Voltage (V @ mA)	Letters-Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing 1	Pricing 5	Pricing 25
2138791	P-Tec	PC1601J-YLFYDLX	16 x 1	5 x 8	8-bit	5.0 @ 2.0	Black-Yellow/Green	—	4.8 x 1.7 x 0.3	3.9 x 0.9	$2.95	$2.49	$1.95
618003	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0 @ 1.25	Black-None	—	3.2 x 1.4 x 0.3	2.5 x 0.5	9.95	8.95	7.95
2167293	Hantronix	HDM1621H-B-S905	16 x 2	5 x 7	8-bit	5.0 @ 2.2	Gray-STN-None	5	3.3 x 1.7 x 0.4	2.4 x 0.6	3.95	3.49	2.95
2211071	Microtips	MTC-S16204XFYHSAY-08	16 x 2	5 x 7	4-bit	5.5 @ 3.0	Black-Yellow/Green	—	3.3 x 1.7 x 0.5	2.5 x 0.7	6.95	5.95	4.95
2118619	Newhaven	NHD-021682-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	2, 3	3.3 x 1.7 x 0.5	2.5 x 0.6	10.95	9.95	8.95
2118580	Newhaven	NHD-02161Z-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	3, 4	3.2 x 1.4 x 0.5	2.5 x 0.6	8.95	8.95	7.95
2118598	Newhaven	NHD-0216K1Z-NSW-BBW-L	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	White-Blue	2, 3	3.2 x 1.4 x 0.5	2.5 x 0.6	10.95	9.95	8.95
2138783	P-Tec	PC1602J-YLFYDLX	16 x 2	5 x 8	8-bit	5.0 @ 2.0	Black-Yellow/Green	—	4.8 x 1.7 x 0.3	3.9 x 0.9	4.95	4.49	3.95
2205368	ValuePro	AC-162E	16 x 2	5 x 8	8-bit	5.0 @ 2.0	Black-Yellow/Green	—	4.8 x 1.7 x 0.6	3.7 x 0.8	5.95	5.39	4.79
2173159	Vikay	2035STLDYGTN	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.0	Blue-Yellow/Green	—	3.1 x 1.4 x 0.5	2.4 x 0.6	4.95	4.49	3.95
210761	ValuePro	UC-16401 (Samsung)	16 x 4	5 x 8	4-bit or 8-bit	6.5 @ 2.2	Black-None	1, 5	3.4 x 2.4 x 0.3	2.4 x 1.0	8.95	7.95	6.95
2167488	ValuePro	HC164001YFHLYB	16 x 4	5 x 7	8-bit	5.0 @ 0.35	Black-Yellow/Green	—	3.2 x 2.3 x 0.5	2.4 x 1.0	6.95	6.25	5.59
2138775	Hantronix	HDM20216H-3-S00F	20 x 2	5 x 7	8-bit	5.0 @ 2.2	Black-None	7	4.5 x 1.5 x 0.4	3.3 x 0.7	4.95	3.95	2.95
2115469	Hantronix	HDM20216H-3-VH0P	20 x 2	5 x 7	8-bit	5.0 @ 2.2	Yellow-None	—	4.6 x 1.5 x 0.4	3.3 x 0.7	5.95	4.95	3.95
2155372	ValuePro	HC20216NYU-LYVO	20 x 2	5 x 8	8-bit	5.0 @ 2.0	Black-Yellow/Green	6	5.7 x 1.7 x 0.6	4.8 x 0.9	5.95	5.39	4.79
2118635	Newhaven	NHD-0220DZ-FL-YBW	20 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	2, 3	4.6 x 1.5 x 0.4	3.3 x 0.7	14.49	13.49	11.95
2158207	Tianma	TM204JAA7	20 x 4	5 x 8	8-bit	5.0 @ 1.4	Blue-Black/White	—	3.0x 1.8 x 0.4	2.3 x 0.0	12.95	10.95	9.95
2118643	Newhaven	NHD-0420DZ-FL-YBW	20 x 4	5 x 8	4-bit or 8-bit	5.0 @ 3.5	Blue-Yellow/Green	2, 4	3.9 x 2.4 x 0.6	3.0 x 1.0	21.95	20.49	18.95
2179340	Vikay	2240STGYBN	40 x2	5 x 8	4-bit or 8-bit	5.0 @ 2.5	Grey-None	—	7.1 x 1.3 x 0.5	6.4 x 1.1	19.95	17.95	14.49
2179331	Vikay	2440STLDYGTN	40 x4	5 x 8	4-bit or 8-bit	5.0 @ 2.5	Black-Yellow/Green	—	7.5 x 2.1 x 0.5	6.6 x 1.6	22.95	19.95	15.95

†1. Recommended power supply P/N 164101, pg 92
2. Recommended power supply P/N 252701, pg 91
3. Controller SPLC78OD or equivalent
4. Controller SPLC780D-01 or equivalent
5. Control LSI HD44780 & column driver MSM5259 or equivalents
6. Controller SGA006
7. 14-pin connector installed

EARTH LCD — 4.3" Smart Touch TFT Display

This intelligent, all-on-one touchscreen provides "ezLCD" technology to give you a flexible, highly functional, cost-effective alternative to buttons, switches, character modules and STN displays.

- 4.3" color TFT LCD
- 4MB flash memory for storing fonts, bitmaps and macros
- 500:1 contrast ratio
- Integrated 4-wire resistive touchscreen

Part No.	Mfr. Part No.	Resolution	1	5
2169897	EZLCD-304	480 x 272 pixels	$154.95	$144.95

EARTH LCD — 2.6" Touch LCD Development Kit

This kit contains all you need to develop a touchscreen prototype that works right out of the box with any microcontroller, including Arduino!

- 2.69" x 1.61" color TFT LCD
- 4MB flash memory for storing fonts, bitmaps and macros
- 3.3V operating voltage with less than 100mA draw current

Includes: Module, EDK board, 3.7V lithium battery, 2 USB 2.0 to mini USB cables, standoffs, jumper shunts screwdriver

Part No.	Mfr. Part No.	Resolution	1	5
2169871	EZLCD-301-DK	400 x 240 pixels	$199.95	$189.95

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Most Popular Components with Extra Spaces for Expansion

- Each kit includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Each kit has the most popular components in its category
- Each kit is designed for your specific expansion
- Includes identification labels for each drawer, w/ reorder numbers to replenish stock and blank adhesive labels for empty drawers
- Free standing or wall mountable cabinet • Weight of kits: 4.6 to 6.4 lbs.
- Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H
- 20 clear plastic drawers (319601) and 20 dividers (319611)
- Cabinet: ABS-black (P/N 319600 see pg 139)

20-drawer component cabinet with every kit!

★ Web Code: CKS

81841 (Capacitor Kit)

Passives

7400 Series IC Kit
Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

20 each	10 each	10 each	10 each	10 each	10 each
7400	7402	7416	7432	74121	74157
7404	7405	7417	7438	74123	74160
7406	7408	7420	7447	74132	74174
7407	7410	7427	7485	74151	74175
7474	7414	7430	74107	74153	74279

Part No.	Description	1	5
84953	350 pcs. 7400 series IC kit	**$219.95**	**$199.95**

74LS00 Series IC Kit
Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

20 each	10 each	10 each	10 each	10 each
74LS00	74LS05	74LS73	74LS125	74LS193
74LS02	74LS10	74LS75	74LS139	74LS240
74LS04	74LS11	74LS85	74LS151	74LS244
74LS08	74LS14	74LS86	74LS155	74LS245
74LS32	74LS20	74LS90	74LS157	74LS273
74LS74	74LS30	74LS93	74LS174	74LS373
74LS138	74LS47	74LS123	74LS175	74LS374

Part No.	Description	1	5
84961	420 pcs. 74LS series IC kit	**$169.95**	**$153.95**
130391	Refill for 84961 (420 pcs.)	154.95	139.95

CD4000 Series (CMOS) IC Kit
Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

20 each	10 each	10 each	10 each	10 each
CD4001	CD4015	CD4024	CD4051	CD4093
CD4011	CD4016	CD4027	CD4069	CD4511
CD4013	CD4017	CD4040	CD4070	CD4538
CD4049	CD4020	CD4046	CD4071	CD4543
CD4066	CD4023	CD4050	CD4081	CD4584

Part No.	Description	1	5
84970	300 pcs. CD 4000 series IC kit	**$89.95**	**$79.95**
130403	Refill for 84970 (300 pcs.)	74.95	67.95

Linear IC Kit
Includes 480 pcs. (40 Types)

20 each	10 each	10 each	10 each	10 each
LM317T	TL072CP	LM337T	LF412CN	ULN2803A
LM324N	TL074CN	LF353N	LMC555CN	NE5532N
LM339N	TL082CP	LF356N	LM556N	7808T
LM741CN	TL084CN	LM358N	LM723CN	78L12CZ
LM555CN	MAX232CPE	LM386N-1	LM1458N	7815T
7805T	LM301N	LM386N-3	DS1488N	7905T
78L05CZ	LM308N	LM393N	DS1489N	7912CT
7812T	LM311N	LF411CN	ULN2003AN	7915CT

Part No.	Description	1	5
84988	480 pcs. (40 types) Linear IC kit	**$199.95**	**$179.95**
130411	Refill for 84988 (480 pcs.)	184.95	169.95

Transistor Kit Includes 560 pcs. (20 Types)

100 each	10 each	10 each	10 each	10 each
2N3904	2N2222A	2N4401	MJE3055T	TIP31A
2N3906	2N2907A	2N4403	MPSA18	TIP32A
PN2222	2N3053	2N5401	MPSA06	TIP102
PN2907	2N3055	2N7000	MPSA13	TIP120

Part No.	Description	1	5
82595	560 pcs. Transistor kit	**$69.95**	**$59.95**
130374	Refill for 82595 (560 pcs.)	54.95	49.95

Diode and Rectifier Kit
Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

100 each	10 each	10 each	10 each	10 each
1N914	1N270	1N4007	1N4735A	1N5408
1N4004	1N751A	1N4150	1N4742A	C106B1
1N4148	1N4001	1N4733A	1N5404	KBP04M

Part No.	Description	1	5
82587	420 pcs. Diode kit	**$44.95**	**$39.95**
130366	Refill for 82587 (420 pcs.)	29.95	26.95

1/8-Watt Carbon Film Resistor Kit
Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	—	—
330Ω	2kΩ	5.6kΩ	33kΩ	—	—	—

Part No.	Description	1	5
108329	540 pcs. 1/8-watt Resistor kit	**$29.95**	**$26.95**
108303	Refill for 108329 (540 pcs.)	14.95	13.49

1/4-Watt Carbon Film Resistor Kit
Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2kΩ	5.6kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.2kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	2.7kΩ	20kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.2kΩ	3.3kΩ	22kΩ	10MΩ	—	—
330Ω	1.5kΩ	5.1kΩ	33kΩ	—	—	—

81832	540 pcs. 1/4-watt Resistor kit	**$29.95**	**$26.95**
103166	Refill for 81832 (540 pcs.)	14.95	13.49

1/2-Watt Carbon Film Resistor Kit
Includes 540 pcs. (30 Values) 1/2-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	—	—
330Ω	2kΩ	5.6kΩ	33kΩ	—	—	—

107879	540 pcs. 1/2-watt Resistor kit	**$39.95**	**$34.95**
107853	Refill for 107879 (540 pcs.)	24.95	22.49

1/2-Watt Single Turn Cermet Pot Kit
Includes 200 pcs. (160 pcs) below, (40 pcs) misc 1/4, 1/2, 3/4W

20 each	10 each	10 each	10 each	10 each	10 each	10 each
500Ω	50Ω	2kΩ	10kΩ	25kΩ	100kΩ	1MΩ
1kΩ	100Ω	5kΩ	20kΩ	50kΩ	500Ω	2MΩ

85032	200 pcs. single turn Pot kit	**$69.95**	**$62.95**

3/4-Watt 15 Turn Cermet Pot Kit
Includes 200 pcs. (160 pcs) below, (40 pcs) misc 1/4, 1/2, 3/4W

20 each	10 each	10 each	10 each	10 each	10 each	10 each
500Ω	100Ω	2kΩ	10kΩ	25kΩ	100kΩ	1MΩ
200kΩ	1kΩ	5kΩ	20kΩ	50kΩ	500kΩ	2MΩ

85041	200 pcs. 15 turn Pot kit	**$79.95**	**$71.95**

LEDs & Mounting Hardware Kit
Includes 600 pcs. (24 Types) LEDs and Mounting Hardware

100 each	10 each	10 each	10 each	10 each	10 each
23077	333497	2186435	790111	2183154	2186419
95513	14277	2186558	2133413	2006705	2135267
697590	2169846	2155268	2193897	2183146	2183023
2006730	1995960	697661	2121666	2095189	152864

84996	600 pcs. LED & Hardware kit	**$59.95**	**$53.95**

Switch Kit
Includes 180 pcs. (18 Types) Pushbutton, DIP & Toggle Switches

100 each	10 each	10 each	10 each	10 each	10 each
2082231	2180893	2181167	26649	2210853	2182442
1932707	2181845	2182039	2180834	21910	1945241
567752	2181301	26623	109171	153251	2178566

85059	180 pcs. Switch kit	**$89.95**	**$79.95**

Spacers & Electronic Hardware Kit
Includes 2700 pcs. (27 Types) Spacer, Hex Nuts Flat, Tooth & Lock Washers and Slotted PH Screws

100 each Spacers	100 each Hex Nuts	100 each Flat	100 each Internal Tooth	100 each Split Lock	100 each PH Machine
—	2-56	#2	#2	#2	2-56 x 1/4, 1/2
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/4, 1/2

Part No.	Description	1	5
108433	2700 pcs. Electronic Hardware kit	**$79.95**	**$71.95**

SAE Panel Mounting Hardware Kit
Includes 350 pcs. 8 thread types nuts, washers, keyways
*20 each; †10 each

SAE Thread	Hex Nut*	Flat Washer*	Int. Tooth Washer*	Keyway Washer†
10-32 UNS	2183314			
10-48 UNS	578110			2182590
1/4-32 UNS	2183331	2183381	578339	
1/4-40 UNS	578321			578347
5/16-32 NEF	2182784	2182792		
3/8-32 NEF	2182514	2183293	2185791	
15/32-32 NS	578371		2182557	578380
1/2-28 NEF	740914		527646	

2186056	351 pcs. SAE Hardware kit	**$59.95**	**$53.95**
2186064	Refill for 2186056 (350 pcs.)	44.95	39.95

Monolithic Ceramic Capacitor Kit
Includes 280 pcs. (10 Types) 50V ±20% Monolithic Ceramic Caps.

100 each	10 each	10 each	10 each	10 each
.01µF	22pF	.001µF	.22µF	.47µF
.1µF	100pF	.047µF	.33µF	1µF

171475	280 pcs. Monolithic Cap. kit	**$34.95**	**$31.95**
171483	Refill for 171475 (280 pcs.)	19.95	17.95

Radial Electrolytic Capacitor Kit
Includes 240 pcs. (15 Values) Radial Electrolytic Capacitors

20 each	20 each	10 each	10 each	10 each
1µF @ 50V	3.3µF @ 50V	22µF @ 50V	100µF @ 50V	1000µF @ 16V
1µF @ 100V	4.7µF @ 50V	47µF @ 50V	220µF @ 25V	2200µF @ 25V
2µF @ 50V	10µF @ 50V	100µF @ 25V	470µF @ 25V	3300µF @ 25V

81867	240 pcs. Radial Capacitor kit	**$44.95**	**$39.95**
130331	Refill for 81867 (240 pcs.)	29.95	24.95

Axial Capacitor Kit
Includes 140 pcs. (10 Values) ±20% Axial Electrolytic Capacitors

20 each	20 each	10 each	10 each	10 each
1µF @ 50V	4.7µF @ 50V	47µF @ 50V	220µF @ 50V	1000µF @ 25V
2.2µF @ 50V	10µF @ 50V	100µF @ 50V	470µF @ 50V	2200µF @ 16V

81875	140 pcs. Axial Capacitor kit	**$44.95**	**$39.95**
130340	Refill for 81875 (140 pcs.)	29.95	26.95

Ceramic Disc Capacitor Kit
Includes 520 pcs. (10 Values) 50V Ceramic Disc Capacitors

100 each	100 each	20 each	20 each	20 each
.01µF	.047µF	10pF	47pF	470pF
.022µF	.1µF	22pF	100pF	.001µF

81859	520 pcs. Ceramic Capacitor kit	**$39.95**	**$34.95**
130232	Refill for 81859 (520 pcs.)	24.95	22.49

Mylar Capacitor Kit
Includes 280 pcs. (10 Values) 100V ±10% Mylar Capacitors

100 each	10 each	10 each	10 each	10 each
.01µF	.001µF	.022µF	.047µF	.47µF
.1µF	.0068µF	.033µF	.22µF	1µF

81883	280 pcs. Mylar Capacitor kit	**$39.95**	**$34.95**
130358	Refill for 81883 (280 pcs.)	24.95	22.49

Dipped Tantalum Capacitor Kit
Includes 150 pcs. (15 Values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1µF @ 35V	1µF @ 25V	3.3µF @ 25V	10µF @ 16V	22µF @ 16V
.22µF @ 35V	1µF @ 16V	4.7µF @ 35V	10µF @ 35V	33µF @ 25V
.47µF @ 25V	2.2µF @ 16V	6.8µF @ 35V	15µF @ 25V	47µF @ 25V

81841	150 pcs. Tantalum Capacitor kit	**$69.95**	**$62.95**
130260	Refill for 81841 (150 pcs.)	54.95	49.95

135271 – LEDs **18201 – LED Displays** **2125616 – LED Indicators** **18294 – Toy Motors** **149649 – Fans** **2133739 – Connectors** **319600 – Cabinet**

JAMECO ValuePro • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319600 ★ **Web Code: GBS**

Passives

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged and are combined to make up the Schwab's School Selection (P/N 163213).

Capacitors, Inductors/Chokes and Fuses

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 assorted ceramic disc capacitors	0.2	$6.95	$5.95
135335	GB100LB	900 assorted ceramic disc capacitors	1.0	16.95	14.95
17881	GB101	100 assorted mylar capacitors	0.3	7.95	6.95
135458	GB101LB	400 assorted mylar capacitors	1.0	19.95	17.95
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap, 85˚C, 105˚C, ±20%	0.5	9.95	8.95
135394	GB102LB	300 assorted electrolytic capacitors	1.0	19.95	17.95
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95
2081342	GB200	100 assorted axial chokes & inductors	2.0	9.95	8.95

Bumpers and Rubber Feet Assortment

Part No.	Product No.	Description		1	10
2081385	GB201	100 assorted bumpers & adhesive rubber feet		$8.95	$7.95

Resistor and Resistor Network Assortments

Part No.	Product No.	Description	Wt.	1	10
134130	GB115	200 asst. 1/8, 1/4, 1/2 resistors (1,5&10%)	0.8	$6.95	$5.95
18104	GB116	200 assorted 1/4W resistors (1,5&10%)	0.1	6.95	5.95
18139	GB117	200 assorted 1/2W resistors (5&10%)	0.2	6.95	5.95

Trimmers, Single and Multi-Turn Potentiometers

Part No.	Product No.	Description	Wt.	1	10
18075	GB113	100 assorted 1/10W to 1/5W trimmer pots (100Ω to 2MΩ values)	0.1	$9.95	$8.95
18278	GB174	100 asst. 1/4W to 3/4W linear, single & multi-turn pots (100Ω to 5MΩ assorted values)	0.2	12.95	11.49
135407	GB174LB	300 asst. 1/4W to 3/4W linear pots (above)	1.0	29.95	26.95

LEDs, Displays, Indicators, Photocells & Solar Cells

Part No.	Product No.	Description	Wt.	1	10
18041	GB110	100 assorted LEDs & lamps (T1 & T1¾ round and rectangular)	0.1	$7.95	$6.95
18323	GB186	500 assorted LEDs & lamps (#18041)	0.3	29.95	26.95
135271	GB110LB	1800 assorted LEDs & lamps (#18041)	1.0	69.95	62.95
2203311	GB310	100 assorted sizes of colored displays (T1 & T1¾ single to multiple rt. angle LEDs)	0.5	9.95	8.95
18201	GB162	50 assorted PCB housing LEDs (7-seg, LCD, dot-matrix, bar graph)	0.5	14.95	13.49
2125616	GB205	30 assorted LED indicators, panel mount, LED, neon, incandescent, various volts/colors	0.8	9.95	8.95
169578	GB125	50 assorted values photocells	0.2	14.95	13.49
2113666	GB213	40 assorted size solar cells	0.1	9.95	8.95

Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer Loren Schwab recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

$89.55 Value

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs,1/4W resistors, switches, spacers and standoffs.

What's your suggestion?

Part No.	Product No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	2.2	$69.95	$63.95
319600	6897CAB	20 drawer component cabinet	3.5	19.95	17.95

Integrated Circuits and IC Sockets

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted TTL series DIP & SMD (SOIC) (74, 74ALS, 74HC, 74HCT, 74F, 74LS, 74S)	0.2	$12.95	$11.49
135280	GB108LB	400 assorted TTL series DIP & SMD (SOIC)	1.0	39.95	35.95
18024	GB109	100 assorted linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.1	12.95	11.49
145242	GB109LB	300 assorted linear series (NSC, Motorola, TI)	0.5	29.95	26.95
114964	GB171	50 assorted Micros, RAMs, SRAMs, PROMs, EPROMs, CPU, DRAMMs (DIP)	0.2	12.95	11.49
105620	GB120	100 assorted sockets (DIP, PGA, SIMM, SIP)	0.3	6.95	5.95
135386	GB120LB	300 assorted sockets (DIP, PGA, SIMM, SIP)	1.0	14.95	12.95

Diodes, Transistors and Crystals/Oscillators

Part No.	Product No.	Description	Wt.	1	10
17961	GB107	200 assorted diodes (zener, switching, silicon rectifiers)	0.1	$9.95	$8.95
18171	GB127	100 asst. transistors (NPN, PNP, power)	0.1	9.95	7.95
114446	GB150	100 assorted crystals/oscillators	0.2	7.95	6.95

Switches, Toy Motors, Gears and Fans

Part No.	Product No.	Description	Wt.	1	10
2133472	GB206	50 assorted DIP switches (2-12 position, low profile, slide, rocker, R/A, standard)	0.2	$6.95	$5.95
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide, DIP)	0.4	9.95	8.95
135378	GB165LB	150 assorted #18235 switches	2.0	19.95	17.95
18294	GB182	5 assorted toy DC motors (1.5–24V)	0.5	7.95	6.95
1810072	GB210	10 pcs. gear set, plastic, black T10, 20, 30, 40, 50 with bushings	0.2	7.95	6.95
2134310	GB208	5 assorted 5VDC fans (sizes & cfm vary)	3.5	7.95	6.95
149649	GB193	5 assorted (one each) AC & DC fans (5, 12, 24, 48VDC & 115/220VAC fans)	4.5	14.95	12.95

Spacer, Standoff and Terminal Assortments

Part No.	Product No.	Description	Wt.	1	10
55968	GB140	100 assorted 4-40, 6-32, 8-32 round/hex, aluminum/steel, spacers/standoffs	0.3	$14.95	$12.95
135423	GB140LB	300 assorted same as P/N 55968	1.0	29.95	26.95
2082118	GB203	100 assorted solderless terminals spade, ring, faston, butt, crimp types	0.2	7.95	6.95

Screw Hardware and Drill Bit Assortments

• Plastic   • Steel   • Brass   • Aluminum

Part No.	Product No.	Description	Wt.	1	10
171571	GB149	500 assorted types of screws, #2, 4, 6, 8 nuts, washers & lock washers	1.0	$7.95	$6.95
171635	GB149LB	1400 asst. same as P/N 171571	3.2	17.95	15.95
2082038	GB202	20 assorted drill bits 8 sizes: .021" (#75) through .125" (#1/8)	0.3	19.95	18.49

Molex/Tyco Style Headers and Connectors

Part No.	Product No.	Description	Wt.	1	10
2095138	GB204	100 asst. .079/.100 male headers (straight, right angle, single and double row)	0.3	$9.95	$8.95
2133739	GB207	100 asst. IDC, CMNL, Mini-Fit JR/SR, power connectors, .100, .118, .165 (straight & R/A)	0.4	9.95	8.95

Surprise Electronic Component Grab Bag

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (hundreds).

Best Seller!

| Part No.	Product No.	Description		1	10
135263	GB191LB	Hundreds of assorted electronic components		$19.95	$17.95

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Electrolytic Capacitors

Passives

JAMECO ValuePro — Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 85°C

★ Web Code: CCE

Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater

L.S. ±0.5
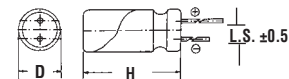
† CROSS REFERENCES: **Nichicon:** LB/VX/USA/SR/SA/UVR; **Elna:** RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

✳ Order in multiples of 10

Part No.	Cross Ref. No.†	Value (µF)	Volt	Size (mm)* D x H x L.S.	1	10	100	500
2151970	R0.1/50	0.1	50	5 x 11 x 5	✳	$.15	$.09	$.06
609043	UVR2A0R1MDD	0.1	100	5 x 11 x 2	✳	.19	.11	.08
330465	RA0.47/50	0.47	50	5 x 11 x 2	✳	.19	.11	.08
330431	RA1/25	1	25	5 x 11 x 2	✳	.15	.09	.06
94161	5R1/50	1	50	4 x 5 x 1.5	✳	.19	.10	.07
29831	R1/50	1	50	5 x 11 x 2	✳	.15	.09	.06
29833	R1/50-R	1	50	5 x 11 x 2	✳	.19	.10	.07
115423	R1/63	1	63	5 x 11 x 2	✳	.19	.10	.07
93729	R2.2/50	2.2	50	5 x 11 x 2	✳	.12	.07	.05
93731	R2.2/50-R	2.2	50	5 x 11 x 2	✳	.15	.09	.06
135184	R3.3/50	3.3	50	5 x 11 x 2	✳	.15	.09	.06
2143460	R4.7/25	4.7	25	4 x 7 x 5	✳	.15	.09	.06
31000	R4.7/50	4.7	50	5 x 11 x 2	✳	.15	.09	.06
31002	R4.7/50-R	4.7	50	5 x 11 x 2	✳	.19	.11	.08
198839	R10J/16	10	16	5 x 11 x 2	✳	.15	.09	.06
94212	5R10/25	10	25	4 x 5 x 1.5	✳	.19	.12	.09
1946367	R10/25ATR	10	25	5 x 11 x 5	✳	.19	.12	.09
94221	5R10/35	10	35	5 x 5 x 2	✳	.19	.12	.09
29891	R10/50	10	50	5 x 11 x 2	✳	.15	.09	.07
29893	R10/50-R	10	50	5 x 11 x 2	✳	.19	.12	.09
1946295	R22/16	22	16	5 x 12 x 5	✳	.09	.05	.04
93739	R22/50	22	50	5 x 11 x 2	✳	.15	.09	.07
2125587	R33/25	33	25	6.3 x 5.6 x 2.5	✳	.19	.11	.08
93747	R33/50	33	50	6.3 x 11 x 2.5	✳	.19	.11	.08
93746	R33/50RA	33	50	8 x 13 x 3.5	✳	.15	.09	.07
1946244	R47/16TR	47	16	5 x 12 x 5	✳	.12	.07	.06
198952	R47J/35	47	35	5 x 11 x 2	✳	.15	.09	.07
31114	R47/50	47	50	6 x 11 x 2.5	✳	.12	.09	.06
31116	R47/50-R	47	50	6.3 x 11 x 2.5	✳	.15	.09	.07
330617	RA47/250	47	250	13 x 25 x 5	.69	.49	.35	.29
330676	RA47/450	47	450	18 x 30 x 7.5	1.49	1.25	1.09	.99
1946261	R68/16TR	68	16	5 x 11 x 5	✳	.12	.09	.07
330422	RA100/16	100	16	5 x 11 x 2	✳	.15	.09	.07
94432	7R100/16	100	16	6 x 7 x 2.5	✳	.12	.09	.07
94289	5R100/16	100	16	6.5 x 5 x 2.5	✳	.15	.09	.07
93761	R100/25	100	25	6 x 11 x 2.5	✳	.12	.09	.07
198970	R100J/35	100	35	6.3 x 11 x 2.5	✳	.12	.09	.07
29962	R100/50	100	50	8 x 11 x 3.5	✳	.15	.10	.08

Part No.	Cross Ref. No.†	Value (µF)	Volt	Size (mm)* D x H x L.S.	1	10	100	500
29964	R100/50-R	100	50	8 x 11.5 x 3.5	✳	$.17	$.12	$.09
330529	RA100/100	100	100	10 x 17 x 5	.49	.29	.19	.15
330580	RA100/160S	100	160	16 x 25 x 7.5	.69	.59	.35	.29
330625	RA100/250	100	250	16 x 31.5 x 7.5	1.25	.99	.69	.49
330684	RA100/450	100	450	22 x 42.5 x 10.5	2.25	1.95	1.75	1.49
198872	R220J/16	220	16	6.3 x 11 x 2.5	✳	.15	.09	.07
30496	R220/25	220	25	8 x 11 x 3.5	✳	.19	.11	.08
93772	R220/35	220	35	8 x 12 x 3.5	✳	.19	.12	.09
93778	R220/50	220	50	10 x 12 x 5	✳	.19	.15	.12
609115	UVR2C221MHD	220	160	16 x 30 x 7.5	1.09	.89	.69	.55
93796	R330/25	330	25	10 x 12 x 5	✳	.15	.10	.08
198978	R330J/35	330	35	10 x 12.5 x 5	✳	.19	.15	.12
330473	RA330/50	330	50	10 x 16 x 5	.39	.25	.16	.14
93809	R470/16	470	16	8 x 11 x 3.5	✳	.15	.10	.09
31183	R470/25-R	470	25	10 x 12 x 3.5	.35	.22	.15	.14
31181	R470/25	470	25	10 x 12 x 5	.39	.25	.19	.15
93817	R470/35	470	35	10 x 16 x 5	.29	.22	.15	.13
93819	R470/35-R	470	35	10 x 16 x 5	.39	.25	.16	.15
93827	R470/50	470	50	10 x 20 x 5	.49	.35	.22	.19
158465	R470B63	470	63	13 x 20 x 5	.65	.49	.35	.29
330456	RA680/25S	680	25	8 x 16 x 3.5	.39	.29	.25	.19
30015	R1000/16	1000	16	10 x 16 x 5	.25	.19	.15	.12
30017	R1000/16-R	1000	16	10 x 16 x 5	.39	.25	.19	.15
93833	R1000/25	1000	25	10 x 20 x 5	.45	.29	.19	.17
93835	R1000/25-R	1000	25	10 x 20 x 5	.49	.35	.21	.19
93841	R1000/50	1000	50	13.6 x 25.8 x 5.5	.75	.59	.39	.35
199111	R1000J/100	1000	100	18 x 41 x 7.5	1.95	1.59	1.25	1.09
133148	R2200/16	2200	16	18 x 16 x 5	.69	.65	.59	.55
30533	R2200/25	2200	25	12 x 25 x 5	.69	.49	.35	.29
30535	R2200/25-R	2200	25	13 x 21 x 5	.79	.55	.39	.35
198986	R2200J/35	2200	35	16 x 25 x 7.5	.85	.69	.55	.49
608956	UVR1H222MHD	2200	50	16 x 30 x 7.5	1.25	.99	.79	.69
198898	R3300J/16	3300	16	13 x 21 x 5	.79	.55	.39	.35
30893	R3300/25	3300	25	13 x 29 x 5	.89	.75	.59	.49
198901	EC470016H1626-R	4700	16	16 x 25 x 7.5	.89	.69	.55	.45
93850	R4700/25	4700	25	16 x 31 x 7.5	1.25	.99	.79	.69
199006	R4700J/35	4700	35	18 x 35 x 7.5	1.75	1.39	.99	.89
163301	R4700/50	4700	50	22 x 42 x 10	1.95	1.59	1.25	1.09
198935	R6800J/25	6800	25	18 x 35.5 x 7.5	2.25	1.95	1.59	1.25

Note: Above case sizes may have ± tolerances   **"TR" at the end of Cross Ref. numbers are Tape and Reel**   *Capacitor dimensions and styles may vary

JAMECO ValuePro — Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Operating temperature range:
  (SMG, SNA & ECO) -40°C to +85°C; (SNB) -40°C to +105°C
- Can-Top safety vent

★ Web Code: EBG

115378   2151152

Part No.	Cross Ref. No.	*Mfr.	Value (µF)	Volt	Size (mm)* D x H x L.S.	1	10	100
2188684	SMG470/200	NIP	470	200	22 x 41 x 10	$2.95	$2.75	$2.49
203263	SNB470/400/5	JVP	470	450	35 x 49 x 9	4.95	4.49	3.95
115378	SNB4700/35	JVP	4700	35	23 x 40 x 9	1.49	1.25	1.09
331901	SNB6800/50	JVP	6800	50	25.2 x 42.4 x 9	4.25	3.95	3.59

Part No.	Cross Ref. No.	*Mfr.	Value (µF)	Volt	Size (mm)* D x H x L.S.	1	10	100
157738	SNB10000/50	JVP	10000	50	35 x 40 x 12	$4.95	$4.49	$3.95
331716	SNA15000/25	JVP	15000	25	25 x 41 x 9	2.95	2.75	2.49
2151152	ECO-S1HP153DA	PAN	15000	50	30 x 50 x 10	4.95	4.49	3.95

*Capacitor dimensions and styles may vary

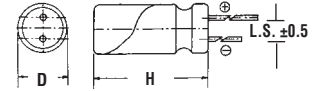★ JVP = Jameco ValuePro | NIP = Nippon | PAN = Panasonic

JAMECO ValuePro — Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 105°C

★Web Code: HAA

105°C – HT Type General Purpose

Leakage Current	After 1 min.	0.03CV or 4µA, whichever is greater
(20°C)	After 2 min.	0.01CV or 3µA, whichever is greater

L.S. ±0.5

† **CROSS REFERENCES: Nichicon:** LB/VX/USA/SR/SA/UPW/UVZ/UHE; **Elna:** RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

❈ Order in multiples of 10

Part No.	Cross Ref. No.†	★Mfr.	Value (µF)	Volt	Size (mm)* D x H x L.S.	1	10	100	500
609545	UVZ1H0R1MDD	JVP	0.1	50	5 x 11 x 2	❈	$.15	$.11	$.09
330772	RB1/50	JVP	1	50	5 x 11 x 2	❈	.15	.11	.09
158491	R1B100	JVP	1	100	5 x 11 x 2	❈	.15	.11	.09
609561	UVZ1H2R2MDD	JVP	2.2	50	5 x 11.5 x 2	❈	.15	.11	.09
330781	RB4.7/50	JVP	4.7	50	5 x 11 x 2	❈	.15	.11	.09
330692	RB10/16	JVP	10	16	5 x 11 x 2	❈	.15	.11	.09
330799	RB10/50	JVP	10	50	5 x 11 x 2	❈	.16	.12	.10
609641	UVZ1J100MDD	JVP	10	63	5 x 11 x 2	❈	.19	.17	.15
610036	UVZ2W100MHD	JVP	10	450	13 x 21 x 5	.85	.75	.59	.49
158327	R22B35	JVP	22	35	5 x 11 x 2	❈	.12	.09	.07
93737	RB22/50TR	JVP	22	50	5.3 x 12 x 5	❈	.15	.11	.09
609975	UVZ2E220MHD	JVP	22	250	13 x 20 x 5	.49	.45	.39	.29
608374	UPW2A330MPD6	JVP	33	100	8 x 15 x 3.5	.29	.25	.19	.15
609502	UVZ1C470MDD	JVP	47	16	5 x 11 x 2	❈	.19	.15	.12
1945428	R47/35	JVP	47	35	6.3 x 11 x 2	❈	.15	.11	.09
330820	RB47/50	JVP	47	50	6.3 x 11 x 2.5	❈	.19	.15	.12
2100241	RB47/100	JVP	47	100	10 x 16 x 5	.35	.29	.25	.19
610010	UVZ2E470MHD	JVP	47	250	13 x 25 x 5	.85	.69	.45	.39
1946228	RB100/10	JVP	100	10	5 x 11 x 3.5	❈	.13	.09	.07
330740	RB100/25	JVP	100	25	6.3 x 11 x 2.5	❈	.19	.15	.12
158394	R100B50	JVP	100	50	8 x 11.5 x 3.5	.25	.21	.15	.12
608032	UPL1J101MHH6	JVP	100	63	13 x 15 x 5	.29	.23	.17	.13
609967	UVZ2E101MHD	JVP	100	250	16 x 31 x 7.5	1.69	1.49	1.25	1.09
2158426	RC120/400	JVP	120	400	16 x 35 x 7	1.69	1.49	1.25	1.09
608340	ECA1JFQ151L	JVP	150	63	10 x 21 x 5	.49	.35	.25	.19
606934	EEUFC1J181	JVP	180	63	10 x 20 x 5	.59	.45	.35	.29
158263	R220B25	JVP	220	25	8 x 11 x 3.5	❈	.19	.15	.12
93770	R220/35	JVP	220	35	10 x 16 x 5	.29	.25	.19	.15
606820	UHE1H221MPD	JVP	220	50	10 x 16 x 5	.39	.35	.25	.19
609721	UVZ1V331MPD	JVP	330	35	10 x 16 x 5	.45	.39	.29	.25
158203	R470B16	JVP	470	16	8 x 11 x 3.5	.29	.25	.19	.15

Part No.	Cross Ref. No.†	★Mfr.	Value (µF)	Volt	Size (mm)* D x H x L.S.	1	10	100	500
2126459	R470/16TR	JVP	470	16	10 x 13 x 5	❈	$.19	$.15	$.12
158289	R470B25	JVP	470	25	10 x 16 x 5	.35	.29	.25	.19
606740	UHE1E471MPD6	JVP	470	25	10 x 17 x 5	.37	.31	.27	.21
606854	UHE1H471MPD	JVP	470	50	13 x 20 x 5	.59	.55	.39	.35
2133430	EEU-FN1C681L	PAN	680	16	8 x 21 x 2.5	.39	.29	.25	.22
2129781	CETMQ1V681M1321BB	SAM	680	35	13 x 21 x 4	.59	.55	.39	.35
606871	UHE1H681MHD	JVP	680	50	13 x 28 x 5	.99	.85	.75	.65
607355	UPWDI821MPD	JVP	820	6.3	14.5 x 8.2 x 3.5	.45	.29	.19	.17
606432	UHE0J102MPD	JVP	1000	6.3	8 x 14 x 3.5	.29	.25	.19	.15
607363	UPW1A102MPD	JVP	1000	10	8 x 20 x 3.5	.39	.35	.25	.19
330722	RB1000/16	JVP	1000	16	10 x 20 x 5	.39	.39	.35	.25
158298	R1000B25	JVP	1000	25	10 x 17 x 5	.49	.39	.35	.25
158378	R1000B35	JVP	1000	35	13 x 21 x 5	.69	.59	.49	.39
609553	UVZ1H102MHD	JVP	1000	50	13 x 25 x 5	.79	.69	.59	.49
606627	UHE1C122MPD	JVP	1200	16	10 x 24 x 5	.59	.49	.39	.29
607232	UPW0J152MPD	JVP	1500	6.3	10 x 20 x 5	.49	.35	.25	.22
607398	UPW1A152MPD6	JVP	1500	10	10 x 20 x 5	.59	.49	.29	.25
607742	UPW1E152MHD6	JVP	1500	25	12.5 x 25 x 5	.75	.59	.49	.45
607873	UPW1H152MHD	JVP	1500	50	16 x 30 x 7.5	1.39	1.19	.99	.79
606467	UHE0J182MPD	JVP	1800	6.3	10 x 20 x 5	.59	.45	.29	.25
607751	UPW1E182MHD	JVP	1800	25	13 x 25 x 5	.79	.69	.59	.49
609342	UVZ0J222MPD	JVP	2200	6.3	10 x 20 x 5	.59	.49	.29	.25
606563	UHE1A222MPD	JVP	2200	10	10 x 21 x 5	.69	.59	.39	.35
609490	UVZ1C222MHD	NIC	2200	16	13 x 25 x 5	.75	.65	.45	.39
609705	UVZ1V222MHD	JVP	2200	35	16 x 26 x 7.5	1.09	.85	.79	.69
158432	R2200B50	JVP	2200	50	16 x 30 x 7.5	1.39	1.19	.99	.79
608278	UPW1V332MHD	JVP	3300	35	18 x 33 x 7.5	1.49	1.29	1.09	.95
609588	UVZ1H332MHD	JVP	3300	50	18 x 36 x 7.5	1.95	1.75	1.49	1.25
607814	UPW1E472MHD	JVP	4700	25	18 x 39 x 7.5	1.29	1.09	.89	.79
2203098	R5600B6.3	JVP	5600	6.3	12.5 x 40 x 5	.69	.59	.49	.39
2125641	R5600B16	NIC	5600	16	16 x 40 x 7.5	1.29	1.09	.89	.79
609473	UVZ1C103MHD	JVP	10000	16	18 x 41 x 7.5	2.25	1.95	1.75	1.49

*Capacitor dimensions and styles may vary

JAMECO ValuePro — Memory Back-Up Capacitors

Applications: • Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
• Memory back-up of remote controllers
Features: • Voltage: 5.5VDC, 8VDC
• Small size vs. capacitance

★Web Code: SAB

Type 1   Type 2
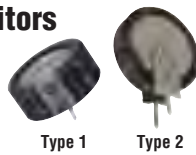
Part No.	Cross Ref. No.	Type	Value (F)	Volts	Dia. x Thick x Pin (mm)	1	10	100
142957	MBC1.0/5.5	1	1.0	5.5	19.8 x 7.5 x 5.3	$3.49	$3.09	$2.85
227811	S5R5V105	2	1.0	5.5	18.8 x 5.1 x 5.8	3.49	3.09	2.85
2162599	F5R5U155	1	1.5	5.5	20.5 x 7.1 x 5.5	3.25	2.95	2.75

Axial Polystyrene Capacitors

NEW — MARKED IN PINK

• High stability and high insulation resistance
• Wide frequency range • 5% tolerance
• Ideal for high frequency circuits and measuring instruments

★Web Code: PSC

Fig. 2

Fig. 1

Part No.	Mfr. Part No.	Fig.	Value (pF)	Volts	Dia. x L (mm)	1	10	100
2215304	23PS122	1	220	50	5.5 x 12	$.29	$.25	$.19
2215355	23PS133	1	330	50	5.5 x 12	.25	.19	.15
2215371	23PS210	1	1000	50	6 x 12	.25	.19	.15
2215312	23PS212	1	1200	50	6 x 12	.25	.19	.15
2215339	23PS215	1	1500	50	6 x 12	.25	.19	.15
2215321	23PS247	1	4700	50	8 x 12	.35	.29	.25
2215347	23PW250	2	5000	50	8.5 x 12	.39	.35	.29
2215363	23PW268	2	6800	50	9 x 12	.39	.35	.29

Ceramic Trimmer Capacitors

5mm (.197")

• Working voltage: 200VDC
• Withstand voltage: 400VDC
• Turning torque: 35~200 g-cm   • Q Factor @ 1MHz: >200
• Operating temperature range: -30°C ~ +85°C
• Insulation resistance: >10MΩ min. @ 250VDC

★Web Code: PBZ   136979

❈ Order in multiples of 10

Part No.	Capacitance Range (pF)	Color Code	1	10	100	500
2178822	2.5–5.0	NIL	$.59	$.49	$.39	$.29
136979	9.0–50.0	Green	.89	.79	.69	.59

8mm (.315")

• Working voltage: 250VDC   • Withstand volt.: 550VDC
• Turning torque: 40~200 g-cm   • Q Factor @ 1MHz: >300
• Operating temperature range: -55°C ~ +85°C
• Insulation resistance: 10MΩ min. @ 250VDC

Part No.	Capacitance Range (pF)	Color Code	1	10	100	1000
134818	3.5–13.0	Ivory	$.59	$.49	$.39	$.29
32839	4.0–34.0	Yellow	1.19	1.09	.99	.89
32855	6.0-70	Nil	1.19	1.09	.99	.89
94449	8.5-100	Purple	1.19	1.09	.99	.89
94466	8.5-120	Nil	1.49	1.25	1.09	.95

★ Suppression Capacitors — Enter Web Code SNC

★ **JVP** = Jameco ValuePro | **NIC** = Nichicon | **PAN** = Panasonic | **SAM** = Samsung

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS — NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Passives

JAMECO ValuePro — Aluminum Axial-Lead Electrolytic Capacitors (±20%) 85°C

★ Web Code: GAA

Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater

✲ Order in multiples 10

Part No.	Product No.	Value (µF)	Voltage	Size (mm)* D x H	1	10	100	500
10868	A1/50-R	1	50V	5 x 12	$.39	$.35	$.29	$.27
10866	A1/50	1	50V	5 x 13	.35	.29	.25	.22
2215638	A2.0/35	2.0	35V	6 x 13	✲	.19	.15	.12
93569	A2.2/50	2.2	50V	6 x 13	.39	.35	.29	.27
11076	A4.7/50	4.7	50V	6 x 13	.39	.35	.29	.27
2215646	A5.0/35	5.0	35V	6 x 13	✲	.19	.15	.12
1946199	A10/16	10	16V	4 x 7	.39	.35	.29	.27
10882	A10/50	10	50V	6 x 12	.49	.45	.39	.37
331425	AB10/450	10	450V	13 x 25	1.75	1.49	1.25	1.15
199268	A22J/25	22	25V	6 x 12.5	.39	.35	.29	.27
2202520	A22/35#	22	35V	6 x 13	.35	.29	.25	.19
331433	AB22/450	22	450V	16 x 26.5	1.75	1.49	1.25	1.15
135319	A47/25	47	25V	8 x 16	.49	.45	.39	.37
11105	A47/50	47	50V	8 x 16	.55	.49	.45	.39
199188	A100J/16	100	16V	6 x 12.5	.55	.49	.45	.39
93551	A100/35	100	35V	8 x 16	.59	.55	.49	.45
10913	A100/50-R	100	50V	8 x 16	.79	.75	.69	.59
10911	A100/50	100	50V	8 x 20	.79	.75	.69	.59
331417	AB100/250	100	250V	18 x 39	1.75	1.49	1.25	1.15

Part No.	Product No.	Value (µF)	Voltage	Size (mm)* D x H	1	10	100	500
2150811	A220/16	220	16V	10 x 21	$.59	$.55	$.49	$.45
11019	A220/50	220	50V	10 x 17	.79	.69	.59	.55
199217	A470J/16	470	16V	8 x 17	.79	.69	.59	.55
199381	A470J/35	470	35V	10 x 21	1.25	1.09	.99	.89
11123	A470/50	470	50V	13 x 22	1.35	1.19	1.09	.99
2215689	T200V680UF	680	200V	25 x 50	4.95	4.49	3.95	3.49
10956	A1000/25-R	1000	25V	10 x 20	1.59	1.39	1.25	1.15
10954	A1000/25	1000	25V	13 x 26	1.59	1.39	1.25	1.15
93649	A1000/35	1000	35V	13 x 31	1.95	1.75	1.49	1.35
147256	A1000/50	1000	50V	16 x 31	2.25	1.95	1.75	1.59
11033	A2200/16	2200	16V	16 x 40	1.95	1.75	1.49	1.35
93658	A2200/35	2200	35V	16 x 30	2.25	1.95	1.75	1.59
199479	A2200J/50	2200	50V	18 x 33	2.49	2.25	1.95	1.75
199487	A3300J/50	3300	50V	22 x 43	2.49	2.25	1.95	1.75
93673	A4700/25	4700	25V	18 x 41	2.25	1.95	1.75	1.59
158650	A4700A25	4700	25V	22 x 40	1.95	1.75	1.49	1.35
158811	A4700A50	4700	50V	22 x 40	2.95	2.59	2.29	2.09
93681	A10000/16	10000	16V	22 x 51	2.95	2.59	2.29	2.09
2215671	16V22000	22000	16V	25 x 60	4.95	4.49	3.95	3.49

*Capacitor dimensions and styles may vary   #105°C

*Capacitor dimensions and styles may vary

JAMECO ValuePro — Resin Dipped Solid Tantalum Capacitors (±10%) 85°C

★ Web Code: VAE

- Operating temperature range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Flame retardant coating
- Rated voltage DC: ≤ +85°C
- Moisture-resistant
- Designed for entertainment and commercial equipment
- Low leakage current
- † P/Ns 2178726/2167357/2178785/2178769: ±20%

Part No.	Product No.	Value (µF)	Volt (V)	Size (mm)* D x H x L.S.	1	10	100	500
545561	TAP104K035SCS	.10	35	4.0 x 6.0 x 2.5	$.45	$.35	$.29	$.25
33488	TM.1	.10	35	4.5 x 7.0 x 2.5	.45	.35	.29	.25
33486	TM.1/35	.10	35	4.5 x 7.0 x 5.2	.39	.29	.25	.19
33507	TM.22/35	.22	35	4.5 x 7.0 x 5.0	.45	.35	.29	.25
2178726	TM.33/35/20†	.33	35	3.4 x 6.5 x 5.0	.35	.29	.25	.19
33523	TM.33/35	.33	35	4.5 x 7.0 x 2.5	.39	.29	.25	.19
33525	TM.33-R	.33	35	4.5 x 7.0 x 2.5	.45	.35	.29	.25
33533	TM.47	.47	35	4.5 x 7.0 x 2.5	.45	.35	.29	.25
33531	TM.47/35	.47	35	4.5 x 7.0 x 2.7	.39	.29	.25	.19
545588	TAP105K025SCS	1	25	4.3 x 7.0 x 2.5	.45	.35	.29	.25
154860	TM1/25	1	25	4.5 x 7.0 x 4.7	.39	.29	.25	.19
545596	TAP105K035SCS	1	35	4.3 x 7.0 x 2.5	.45	.35	.29	.25
33662	TM1/35	1	35	4.5 x 7.0 x 2.7	.39	.29	.25	.19
545609	TAP105K050SCS	1	50	4.7 x 7.5 x 2.5	.59	.49	.39	.29
2167357	TAP155M035BRS†	1.5	35	4.5 x 8.0 x 5.0	.39	.29	.25	.19
94001	TM2.2/16	2.2	16	4.5 x 7.0 x 4.7	.45	.35	.29	.25
33736	TM2.2/35	2.2	35	5.0 x 8.0 x 2.5	.49	.45	.35	.29
545941	TAP335K025SCS	3.3	25	4.3 x 7.0 x 2.5	.59	.49	.39	.29
94035	TM4.7/16	4.7	16	5.0 x 8.0 x 2.5	.49	.45	.35	.29
546071	TAP475K025SCS	4.7	25	4.3 x 7.0 x 2.5	.59	.49	.39	.29
546089	TAP475K035SCS	4.7	35	4.7 x 7.5 x 2.5	.69	.59	.49	.39
33806	TM4.7/35	4.7	35	5.5 x 9.5 x 2.5	.59	.49	.39	.29

Part No.	Product No.	Value (µF)	Volt (V)	Size (mm)* D x H x L.S.	1	10	100	500
546185	TAP685K025SCS	6.8	25	4.7 x 7.5 x 2.5	$.59	$.49	$.39	$.35
33873	TM6.8/35	6.8	35	6.5 x 9.0 x 4.7	.69	.59	.49	.45
545625	TAP106K010SCS	10	10	4.7 x 7.5 x 2.5	.59	.49	.39	.35
94060	TM10/16	10	16	4.6 x 7.5 x 3.2	.49	.39	.29	.25
94062	TM10/16-R	10	16	5.0 x 8.0 x 2.5	.55	.45	.35	.29
852393	TAP106K016SCS	10	16	5.0 x 12.0 x 2.5	.59	.49	.39	.35
545633	TAP106K020SCS	10	20	5.4 x 8.0 x 2.5	.69	.59	.49	.39
2178785	TM10/25/20†	10	25	6.0 x 5.0 x 5.0	.49	.45	.35	.29
94078	TM10/25	10	25	5.5 x 9.5 x 2.8	.55	.45	.39	.35
545641	TAP106K025SCS	10	25	5.4 x 8.0 x 2.5	.59	.49	.45	.39
545650	TAP106K035SCS	10	35	5.4 x 8.0 x 2.5	1.25	1.09	.89	.75
33689	TM10/35	10	35	6.5 x 11.0 x 4.7	1.19	.99	.79	.65
33719	TM15/25	15	25	4.5 x 8.0 x 2.5	1.59	1.39	1.25	.99
33751	TM22/6.3	22	6.3	4.7 x 7.5 x 2.5	.59	.49	.45	.39
545852	TAP226K016SCS	22	16	5.4 x 8.0 x 2.5	.79	.65	.55	.49
94094	TM22/16	22	16	5.5 x 9.5 x 4.1	.69	.59	.49	.39
33785	TM33/25	33	25	8.5 x 13.0 x 4.7	1.95	1.75	1.49	1.25
94123	TM47/16	47	16	5.2 x 8.2 x 2.0	1.49	1.25	1.09	.99
546118	TAP476K016SCS	47	16	6.0 x 9.4 x 2.5	1.95	1.75	1.49	1.25
33822	TM47	47	25	9.5 x 16.5 x 2.5	2.45	2.25	1.95	1.75
597450	TAP107K016CCS	100	16	7.0 x 11.0 x 2.5	2.75	2.49	2.25	1.95
545684	TAP107K020CCS	100	20	8.2 x 12.5 x 2.5	3.59	3.25	2.95	2.75
2178769	TAP157M016CCS†	150	16	7.5 x 10.7 x 4.5	1.95	1.75	1.49	1.25

*Capacitor dimensions and styles may vary   Note: Above case sizes may have ±20% tolerances

JAMECO ValuePro — Axial Leaded Ceramic Capacitors (±5 & ±10%)

★ Web Code: ACC

50, 100 and 200 Volt, NPO and X7R Temperature Coefficient
- Operating temperature range: -55°C to +125°C

✲ Order in multiples 10

Part No.	Product No.	✲Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	1	10	100
546265	SA102A101JAA	JVP	100pF	200	NPO	5	✲	$.15	$.12
1069763	SA101C222KAA	AVX	2200pF	100	X7R	10	✲	.19	.17

Part No.	Product No.	✲Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	1	10	100
546290	P10R103K5	JVP	0.01µF	50	X7R	10	✲	$.15	$.12
536542	P20R104K5	JVP	0.1µF	50	X7R	10	.45	.39	.35

✲ AVX = AVX Corp. | JVP = Jameco ValuePro

Ceramic Disc Capacitors (±5, ±10 or ±20%) 85°C

★ Web Code: HBW

25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient
- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.
- Operating temp. range: +10°C to +85°C
- Capacitance change over temp. range: +22% to -56%

Dia.

✻ Order in multiples of 10

Part No.	Product No.	◉Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing 1	10	100	1000	5000
332291	CD3.3/1000	JVP	3.3pF	1000	20	5	✻	$.12	$.09	$.07	$.05
15333	DC10	JVP	10pF	50	20	5	✻	.09	.06	.05	.03
15405	DC22	JVP	22pF	50	20	6	✻	.09	.06	.05	.03
15407	DC22-R	JVP	22pF	50	20	6	✻	.09	.06	.05	.03
332217	CD33/50	JVP	33pF	50	20	5	✻	.09	.06	.05	.03
1947010	DC33TR	JVP	33pF	100	10	5	✻	.09	.06	.05	.03
1947028	DC33ATR	JVP	33pF	500	5	5	✻	.09	.06	.05	.03
15512	DC47	JVP	47pF	50	20	5	✻	.10	.08	.06	.04
1947036	DC47TR	JVP	47pF	500	5	6	✻	.12	.09	.07	.05
15552	DC68	JVP	68pF	50	5	8	✻	.08	.06	.04	.025
15341	DC100	JVP	100pF	50	20	5	✻	.09	.06	.05	.03
1947044	DC100TR	JVP	100pF	100	10	8	✻	.12	.09	.07	.05
2162741	DC100/500	JVP	100pF	500	20	18	✻	.09	.06	.05	.03
332363	CD120/1000	JVP	120pF	1000	20	5	✻	.09	.06	.05	.03
1947087	DC150ATR	JVP	150pF	100	5	5	✻	.09	.06	.05	.03
15413	DC220	JVP	220pF	50	20	5	✻	.09	.06	.05	.03
1947132	DC220TR	JVP	220pF	50	5	8	✻	.07	.04	.03	.03
1947239	DC220BTR	JVP	220pF	500	10	10	✻	.08	.039	.03	.025
2162767	DC220/1000	JVP	220pF	1000	10	7	✻	.09	.06	.05	.03
1947301	DC330TR	JVP	330pF	100	20	5	✻	.12	.09	.07	.05
15528	DC470	JVP	470pF	50	20	5	✻	.09	.06	.05	.03
1947319	DC470TR	JVP	470pF	100	20	5	✻	.08	.06	.04	.025
2162732	DC680	JVP	680pF	1000	10	9	✻	.09	.06	.05	.03
2162759	DC820	JVP	820pF	1000	20	7	✻	.09	.06	.05	.03
15190	DC.001	JVP	.001μF	50	20	6	✻	.12	.09	.07	.06
15192	DC.001-R	JVP	.001μF	50	20	6	✻	.15	.12	.09	.07

TR at the end of Product Number are Tape and Reel

✻ Order in multiples of 10

Part No.	Product No.	◉Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing 1	10	100	1000	5000
1947394	DC.001ATR	JVP	.001μF	500	20	4	✻	$.12	$.09	$.07	$.05
1947415	DC.001BTR	JVP	.001μF	500	10	7	✻	.12	.09	.07	.05
332436	CD1000/1000	JVP	.001μF	1000	20	5	✻	.12	.09	.07	.05
1947327	DC.0022TR	JVP	.0022μF	25	20	4	✻	.07	.04	.03	.02
1947386	DC.0022ATR	JVP	.0022μF	500	20	7	✻	.09	.06	.05	.04
332443	CD2200/1000	JVP	.0022μF	1000	20	6	✻	.15	.12	.09	.07
1947407	DC.0033	JVP	.0033μF	500	20	9	✻	.15	.12	.09	.07
2159883	DC.0033/1000	JVP	.0033μF	1000	10	7	✻	.09	.06	.05	.03
15211	DC.0047	JVP	.0047μF	50	20	8	✻	.09	.06	.05	.03
1947335	DC.0047TR	JVP	.0047μF	100	20	5	✻	.09	.06	.05	.03
15229	DC.01	JVP	.01μF	50	20	6	✻	.09	.06	.05	.03
15231	DC.01-R	JVP	.01μF	50	20	6	✻	.10	.08	.06	.04
97375	DC.01/1K20	JVP	.01μF	1000	20	6	✻	.19	.15	.12	.09
97377	DC.01/1K20-R	JVP	.01μF	1000	20	6	.25	.19	.15	.12	.10
1936898	S103M47Z5UN63K0	VSH	.01μF	1000	20	10	✻	.19	.15	.12	.09
332487	CD20000/1000	JVP	.02μF	1000	20	16	.55	.45	.35	.29	.25
15245	DC.022	JVP	.022μF	50	20	8	✻	.10	.08	.06	.04
1947351	DC.047B	JVP	.047μF	25	20	7	✻	.09	.06	.05	.03
15253	DC.047	JVP	.047μF	50	20	8	✻	.12	.09	.07	.05
332507	CD50000/1000	JVP	.05μF	1000	20	16	.49	.45	.39	.35	.29
151116	DC.1/25	JVP	.1μF	25	20	6	✻	.13	.11	.09	.07
151118	DC.1/25-R	JVP	.1μF	25	20	6	✻	.15	.12	.09	.07
2146302	DC.1-5MM	JVP	.1μF	50	20	5	✻	.15	.12	.09	.07
15270	DC.1	JVP	.1μF	50	20	8	✻	.19	.15	.12	.09
15272	DC.1-R	JVP	.1μF	50	20	8	.29	.25	.19	.15	.12
2146311	SC45YV1H104Z	JVP	.1μF	50	20	11	✻	.19	.15	.12	.09
332516	CD100000/1000	JVP	.1μF	1000	20	21	.59	.49	.39	.35	.29

TR at the end of Product Number are Tape and Reel

Monolithic Radial Ceramic Capacitors (±5, ±10 or ±20%)

★ Web Code: JBZ

H, W, L.S., T

Applications:
- Data processing
- Communications engineering

NPO (COG) Series (±5%)

★ Web Code: JBW

- Operating temp. range: -55°C to +125°C

Order in multiples of 10

Part No.	Product No.	◉Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing 10	100	500	1000
2159816	B37986N5102K1	JVP	1nF	63	4.7 x 1.7 x 6.1 x 2.6	$.19	$.12	$.08	$.06
332523	COG10/100	JVP	10pF	100	4.0 x 2.0 x 3.2 x 5.1	.19	.12	.08	.07
332541	COG22/100	JVP	22pF	100	3.6 x 2.3 x 3.6 x 2.5	.19	.12	.08	.07
332567	COG47/100	JVP	47pF	100	3.8 x 2.0 x 3.3 x 2.5	.19	.12	.08	.07

X7R Series (±10%)

★ Web Code: JBX

- Operating temp. range: -55°C to +125°C

✻ Order in multiples of 10

Part No.	Product No.	◉Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing 1	10	100	500	1000
332583	MOC100/100	JVP	100pF	100	5.0x5.0x3.0x2.5	✻	$.19	$.12	$.08	$.07
332612	MOC470/100	JVP	470pF	100	5.0x5.0x3.0x2.5	✻	.19	.12	.08	.07
544825	SR151C102KAA	JVP	1000pF	100	3.8x2.5x3.8x2.5	✻	.19	.12	.08	.07
544833	SR151C103KAA	JVP	.01μF	100	3.8x2.5x3.8x2.5	.29	.25	.15	.09	.08
597281	SR211C103KAA	JVP	.01μF	100	3.8x2.5x3.8x5.1	.29	.25	.15	.09	.08
332647	MOC10000/100	JVP	.01μF	100	5.0x5.0x3.0x2.5	.29	.25	.15	.09	.08
332655	MOC22000/100	JVP	.022μF	100	5.0x5.0x3.0x2.5	.29	.25	.15	.09	.08
544905	SR211C333KAA	JVP	.033μF	100	3.8x2.5x3.8x5.1	.29	.25	.15	.09	.08
544913	SR211C473KAA	JVP	.047μF	100	3.8x2.5x3.8x5.1	.29	.25	.15	.09	.08
544921	SR215C104KAA	JVP	.1μF	50	3.8x2.5x3.8x5.1	✻	.15	.12	.09	.07
544884	SR211C104KAA	JVP	.1μF	100	3.8x2.5x3.8x5.1	✻	.19	.12	.09	.07
332672	MOC100000/100	JVP	.1μF	100	5.0x5.0x3.0x2.5	.29	.25	.15	.12	.09
544948	SR305C474KAA	JVP	.47μF	50	3.8x2.5x3.8x5.1	.45	.39	.35	.29	.25

*Capacitor dimensions and styles may vary Note: Above case sizes may have ± tolerances

Z5U Series (±20%)

- Operating temp. range: +10°C to +85°C

✻ Order in multiples of 10

Part No.	Product No.	◉Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing 1	10	100	500
81543	MD10	JVP	10pF	50	3.5 x 2 x 3 x 2.5	✻	$.12	$.09	$.07
81533	MD22	JVP	22pF	50	4 x 2 x 4 x 5.1	✻	.15	.12	.09
81525	MD100	JVP	100pF	50	3.3 x 2 x 3 x 2.5	✻	.15	.12	.09
81517	MD.001	JVP	.001μF	50	4.5 x 2 x 3 x 2.5	✻	.15	.12	.06
138202	MD.0047	JVP	.0047μF	50	3.3 x 2.2 x 5.5 x 4.6	✻	.15	.12	.09
25507	MD.01	JVP	.01μF	50	3.5 x 2 x 3 x 2.5	✻	.19	.15	.12
57621	MD.047	JVP	.047μF	50	2.5 x 2.5 x 3 x 2.5	✻	.19	.15	.10
25525	MD.1	JVP	.1μF	50	3.4 x 2.2 x 3.6 x 5.1	.29	.25	.19	.15
1639631	C315C104M5U5TA	KMT	.1μF	50	3.8 x 2.5 x 5.3 x 2.5	✻	.15	.09	.07
544868	SR205E104MAA	JVP	.1μF	50	4.0 x 2.6 x 3.8 x 2.5	✻	.19	.15	.10
2162582	C322C104M5U5CA	KMT	.1μF	50	4.5 x 2.3 x 3.6 x 5	✻	.17	.15	.12
25523	MD.1-R	JVP	.1μF	50	6 x 2 x 4 x 5.1	✻	.19	.15	.10
25540	MD.22	JVP	.22μF	50	6 x 2 x 4.5 x 5.1	.29	.25	.19	.15
544930	SR215E334MAA	JVP	.33μF	50	3.8 x 2.5 x 3.8 x 5.1	.29	.25	.19	.15
138237	MD.33	JVP	.33μF	50	6 x 2 x 8 x 5.1	.29	.25	.19	.15
25558	MD.47	JVP	.47μF	50	4.5 x 2.5 x 4.5 x 5.1	.39	.29	.19	.15
544956	SR305E105MAA	JVP	1μF	50	3.8 x 2.5 x 3.8 x 5.1	.49	.39	.29	.25
81509	MD1	JVP	1μF	50	6 x 3 x 7 x 5.1	.49	.39	.29	.25

*Capacitor dimensions and styles may vary Note: Above case sizes may have ± tolerances

Ceramic Resonator

★ Web Code: CRS

- Frequency accuracy: ±0.5% @ 25°C
- Extended temp. range: -20°C to +85°C
- Withstanding volt. (5 sec): 100V max.

Part No.	Product No.	Frequency	Resistance	Pins	1	10	100
324672	TZTT-20.00MT	20.0MHz	30Ω	3	$.49	$.45	$.39

JVP = Jameco ValuePro | KMT = Kemet | VSH = Vishay

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Passives

Passives

JAMECO ValuePro — Dipped Silver Mica Capacitors (±5%)

Metallized Polyester Film
- Case type: DM15 • Lead space: 0.23"
- Operating temp. range: -55° to +125°C
- Tolerance: ±5%

★ **Web Code: HAB**

Part No.	Product No.	Value	Volt. (V)	Size (mm) L x T x H*	1	10	100	1000
15991	DM100	10pF	500	11 x 4 x 9	$.65	$.59	$.55	$.49
16037	DM220	22pF	500	11 x 4 x 9	.65	.59	.55	.49
16096	DM470	47pF	500	11 x 4 x 9	.69	.65	.59	.55
16002	DM101	100pF	500	11 x 4 x 9	.69	.65	.59	.55
16088	DM331	330pF	500	11 x 4 x 9	.85	.75	.69	.65
16109	DM471	470pF	500	11 x 4 x 9	.95	.85	.75	.69
531266	CD19FD681J03	680pF	500†	15 x 4 x 10	.49	.39	.29	.25
16011	DM102	1000pF	100	11 x 4 x 9	1.25	1.09	.99	.89

*Capacitor dimensions and styles may vary †Manufacturer: Cornell Dubilie

Metallized Polyester Film Mylar Capacitors (±10%)
- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec.

NEW MARKED IN PINK

JAMECO ValuePro ★ **Web Code: KWJ**

✳ Order in multiples of 10

Part No.	Product No.	Value (µF)	Volt. (V)	Size (mm)* L x T x H x L.S.	1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0 x 5.1	✳	$.12	$.08	$.06
1946164	MY.0068	.0068	100	5.5 x 2.5 x 10 x 5.1	✳	.12	.08	.06
26884	MY.01	.01	100	6.0 x 3.0 x 7.0 x 5.1	✳	.19	.15	.12
1983424	MY.1/630	.10	630	16.7 x 4.9 x 11 x 14.5	.45	.19	.13	.11
2217326	103MPR400K	.01	350	11.6 x 3.4 x 6.55 x 9.9	.25	.19	.13	.11
2217334	EQ-E6103JF	.01	630	12.3 x 4.1 x 6.85 x 10.3	.29	.25	.17	.15
207837	MY.018/50	.018	50	6.1 x 2.6 x 11.3 x 5.1	✳	.09	.07	.05
26905	MY.022	.022	100	6.0 x 3.0 x 10 x 5.1	✳	.19	.15	.10
26921	MY.033	.033	100	8.0 x 4.0 x 11 x 16.1	✳	.19	.15	.10
26930	MY.047	.047	100	8.0 x 4.0 x 12 x 5.1	✳	.19	.15	.12
2217342	0.47MFD-400V	.047	400	17.6 x 8.5 x 8.9 x 5.7	.25	.19	.13	.11
1946172	MY.068	.068	100	8.6 x 4.0 x 11 x 7.6	✳	.15	.12	.07
26956	MY.1	.10	100	12.5 x 5.0 x 9.5 x 7.6	.29	.25	.19	.15
93921	MY.1/250	.10	250	12.5 x 5.5 x 10 x 10.1	.29	.22	.17	.14
920561	ECQ-V1H224JL	.22	50	6.8 x 3.6 x 5.0 x 4.7	✳	.19	.15	.11
26972	MY.22	.22	100	9.2 x 5.1 x 7.8 x 4.7	.35	.29	.25	.19
2203101	MY.22K	.22	100	12.5 x 6.0 x 17 x 10	.29	.25	.19	.15
2217351	ECQ-E6224JF	.22	630	17.5 x 8.1 x 14.7 x 13.7	.49	.39	.29	.25
93964	MY.33/250	.33	250	18 x 7.0 x 12.5 x 15.2	.49	.45	.39	.29
26999	MY.47	.47	100	18 x 6.0 x 11.5 x 16.1	.49	.45	.35	.25
27001	MY1	1.0	100	18 x 7.5 x 14 x 15.2	.69	.59	.49	.35
93981	MY1/250	1.0	250	26 x 9.0 x 16 x 15.2	.29	.25	.19	.15
1983395	MY1/400	1.0	400	24.5 x 6.8 x 14.8 x 21.9	.79	.65	.49	.39
93999	MY2.2/250	2.2	250	26 x 9.0 x 16 x 27.9	1.25	1.09	.95	.69
2129852	MKT368†	6.8	100	27 x 10 x 18 x 22	2.75	2.49	2.25	1.49

*Capacitor dimensions and styles may vary †Manufacturer: Vishay

Panasonic® Metallized Film Capacitors (±5%)

V Series – Stacked
- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

★ **Web Code: KWJ**

Order in multiples of 10

Part No.	Mfr. Part No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	10	100	500
2159808	B32693A3152J20	.0015	2500	25.5 x 9.2 x 5.7 x 22	$.07	$.05	$.04
920464	ECQ-V1103JM	.01	100	7.5 x 7 x 3.2 x 5	.19	.15	.12
920510	ECQ-V1H104JL	.1	50	7.3 x 4 x 5 x 5	.19	.15	.12
920595	ECQ-V1H474JL	.47	50	7.3 x 6 x 7.3 x 5	.19	.15	.12

JAMECO ValuePro — SMD Capacitor Assortment Kit

★ **Web Code: CKS**

Now you can have all your SMD capacitor values clearly sorted and organized. 24 different values and 50 pieces of each value.
- Capacitance range: 1pF to 1µF • Volt. range: 10V to 50V

Part No.	Description	1	5
2169416	0603 size SMD capacitor kit	$17.95	$15.95

JAMECO ValuePro — Radial Leaded Varistors
- LA equivalent series
- Recognized as transient voltage surge suppressors
- Designed to be operated continuously across AC power lines
- No derating up to 85°C ambient • UL/CSA/VDE approved

★ **Web Code: CEF**

Part No.	Product No.	Continuous Voltage $V_{M(AC)}$	$V_{M(DC)}$	Transient Energy Joules	Max. Clamping Voltage V_C	$I_{PK(A)}$	1	10	100
34446	V130LA10A	130	175	38	340	50	$.35	$.29	$.25
34462	V130LA20A	130	175	70	340	100	.39	.35	.29
667059	DNR200201K	130	170	95	340	100	.55	.49	.45
667121	V150LA20A	150	200	108	395	100	.29	.25	.22
34471	V250LA20	250	330	72	650	50	.45	.39	.35
2208796	DNR20D431K	275	350	140	710	100	.59	.55	.49
2208809	DNR20D751K	460	615	175	1240	100	.59	.55	.49

JAMECO ValuePro — NTC Thermistors
- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%

★ **Web Code: RBG**

Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @25°C (%/°C)	1	10	100
207521	NTC-101	100	3100	-3.5	$.55	$.49	$.45
207511	NTC-201	200	3100	-3.5	.39	.35	.29
207483	NTC-102	1k	3800	-4.3	.55	.49	.45
207466	NTC-302	3k	3900	-4.4	.59	.55	.45
207441	NTC-502	5k	3900	-4.4	.55	.49	.45
207037	NTC-103	10k	4100	-4.6	.59	.55	.45
207002	NTC-503	50k	4200	-4.7	.55	.49	.45
206991	NTC-104	100k	4400	-4.9	.59	.55	.45

JAMECO ValuePro — Cadmium Sulfide (CdS) Photocells
- Generate variable signal based on detection of light levels • Operating temperature: -30°C to +70°C • Soldering: 230°C for 3 seconds

Applications: Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

★ **Web Code: CBG**

Part No.	Cross Ref. No.	Rating Vp	mW	Resistance (Ω) Dark	Light	Size (inches) A	B	Lead Spacing (inches)	Lead Length (inches)	1	10	100	500
2215451	NSL4140	80	50	800k	14k	0.19	0.18	0.10	1.50	$1.95	$1.75	$1.59	$1.29
202366	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
120310	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.49	1.35	1.19	.95
202391	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
202382	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
202403	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.15	.99	.89	.79
202420	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	1.15	.99	.89	.79
202411	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	1.15	.99	.89	.79
120301	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.49	1.35	1.19	.95
202438	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.35	1.19	.95
120299	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.19
202454	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.19

1/8-Watt Carbon Film Resistor (±5%) Assortment

Part No.	Cross Ref.	Values	Description (see chart, right)	1	5
108303	ASST1830	✗ #	10 ea. of 24 values marked by ✗ and 50 ea. of 6 values marked below by # (540 pcs.)	$14.95	$13.49
108329	CAB182R	See description	1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 30	29.95	26.95

1/8-Watt Resistor Assortment Values (Ohms)

10 ✗	150 ✗	330 ✗	680 ✗	2.0k ✗	3.3k ✗	5.6k ✗	15k ✗	33k ✗	470k ✗
47 ✗	220 #	390 ✗	1.0k #	2.2k ✗	4.7k ✗	6.8k ✗	22k ✗	47k ✗	1.0M ✗
100 #	270 ✗	470 ✗	1.5k ✗	2.7k ✗	5.1k ✗	10k #	27k ✗	100k #	10M ✗

1/4-Watt Carbon Film Resistors (±5%) RoHS

.021" lead dia.   1.08"   .250"   1.08"   .09" body dia.

Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. *Values marked below also come in 10 packs.

Pricing per Resistor (Please order in increments of 10* or 100)				
Specify Part No. & Resistor Value	*10	100	1000	5000
(See Standard Resistor Values Chart below)	$.099	$.04	$.03	$.02

Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)
Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	1	5	50
10720	ASST8-R	—	5 ea. 70 values (350 pcs.)	$10.95	$9.95	$8.95
2131039	K/RES-E12	■	10 ea. 61 values (610 pcs.)	11.95	10.95	9.95
103166	ASST30-R	● ✖	10 ea. 24 values marked ● and 50 ea. 6 values marked ✖ (540 pcs.)	14.95	13.49	11.95
10664	ASST27-R	▲	100 ea. 27 values marked (2,700 pcs.)	34.95	31.49	28.95
81832	—	—	1/4-watt resistor cabinet kit 30 values, see pg 30 (540 pcs.)	29.95	26.95	24.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	2.2	690427 ■	15	690620 ▲✖■	100	690822 ▲●■	680	691024 ▲✖■ * 4.7k	691227 ▲●■	33k	691420 ■	220k	691622	* 1.5M
690224	2.4	690435	16	690638	110	690831	750	691032 ▲✖	5.1k	691235	36k	691438	240k	691631	1.6M
690232	2.7	690443	18	690646 ■	120	690849	820	691041 ▲●■	5.6k	691243	39k	691446 ■	270k	691892	1.8M
690241	3.0	690451 *	20	690654	130	690857	910	691059	6.2k	691251	43k	691454 *	300k	691649	2.0M
690259	3.3	690460 ■	22	690662 ▲●■	150	690865 ▲✖■ * 1.0k	691067 ■	6.8k	691260 ▲●■	47k	691462 *	330k	691657	2.2M
690267	3.6	690478 *	24	690671	160	690873	1.1k	691075	7.5k	691278	51k	691471	360k	691665	2.4M
690275	3.9	690486 ■	27	690689 ■	180	690881 ●■	1.2k	691083 ■	8.2k	691286 ■	56k *	691489	390k	691673	2.7M
690283	4.3	690494	30	690697	200	690890	1.3k	691091	9.1k	691294	62k	691497	430k	691681	3.0M
690291	* 4.7	690507 ■	33	690700 ▲✖■	220	690902 ▲●■	1.5k	691104 ▲✖■	10k	691307 ■	68k *	691500 ▲●■	470k	691690	3.3M
690304	5.1	690515	36	690718	240	690911	1.6k	691112	11k	691315	75k	691518	510k	691702	3.6M
690312	5.6	690523 ■	39	690726 ▲●■	270	690929 ■	1.8k	691121 ■	12k	691323 ■	82k *	691526 ■	560k	691711	* 3.9M
690321	6.2	690531	43	690734	300	690937 ▲●	2.0k	691139	13k	691331	91k	691534	620k	691737	4.7M
690339	6.8	690540 ▲●■ *	47	690742 ▲●■	330	690945 ▲●■	2.2k	691147 ▲●■ *	15k	691340 ▲✖■	100k	691542 ■	680k	691745	5.1M
690347	7.5	690558	51	690751	360	690953	2.4k	691155	16k	691358	110k	691551	750k	691753	5.6M
690363	8.2	690566 ■	56	690769 ●■	390	690961 ▲●■	2.7k *	691163 ■	18k	691366 ■	120k	691569 ■	820k	691761	6.2M
690371	9.1	690574	62	690777	430	690970	3.0k *	691171 ●	20k	691374	130k	691577	910k	691770	6.8M
690380 ▲●■	* 10	690582 ■	68	690785 ▲●■	470	690988 ▲●■	3.3k *	691180 ▲●■	22k *	691382 ■	150k	691585 ▲●■	1.0M	691788	7.5M
690398	11	690591	75	690793	510	690996	3.6k	691198	24k	691391	160k	691593	1.1M	691796	8.2M
690401 ■	12	690603 ■	82 *	690806 ■	560	691008 ■	3.9k	691201 ■	27k	691403 ■	180k	691606	1.2M	691809	9.1M
690419	13	690611	91	690814	620	691016	4.3k	691219	30k *	691411	200k	691614	1.3M	691817 ▲●	* 10M

1/2-Watt Carbon Film Resistors (±5%) RoHS

.028" lead dia.   1.18"   .335"   1.18"   .118" body dia.

Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. *Values marked below also come in 10 packs.

Pricing Per Resistor (Please order in increments of 10* or 100)				
Specify Part No. & Resistor Value	*10	100	1000	5000
(See Standard Resistor Values Chart below)	$.099	$.05	$.04	$.03

Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)
Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	1	5
107853	ASST1230	✗ #	10 ea. of 24 values marked by 7 and 50 ea. of 6 values marked by # (540 pcs.)	$24.95	$22.49
107845	ASST1227	✔	100 ea. of 27 values marked by 4 (2,700 pcs.)	39.95	36.95
107837	ASST1270	See description	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ)(350 pcs.)	12.95	11.95
107879	CAB12R	See description	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 30	39.95	34.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	* 1.0	659868	16	661280	120	661440	560	661600 ✔✗	2.7k	661781	13k	661950	68k	662215	820k
659614	1.5	659884	20	661301 ✔✗	* 150	661466 ✔✗	680	661618	3.0k	661790 ✔✗	15k	661976	82k	662231 ✔✗	* 1.0M
659657	2.2	659892	22	661327	180	661474	750	661634 ✔✗	3.3k	661811	18k	661992 ✔#	100k	662240	1.1M
659673	2.7	661124	27	661335	200	661482	820	661642	3.6k	661829	20k	662004	110k	662282	1.6M
659737	4.7	661141	33	661343 ✔#	220	661503 ✔# * 1.0k	661651	3.9k	661837 ✔✗	22k	662039	150k	662291	1.8M
659788	7.5	661183 ✔✗	47	661351	240	661520	1.2k	661677 ✔# * 4.7k	661845	24k	662071	220k	662311	2.2M
659809	9.1	661191	51	661360 ✔✗	270	661538	1.3k	661685 ✔✗	5.1k	661853 ✗	27k	662098	270k	662320	2.4M
659817 ✔✗	* 10	661204	56	661378	300	661546 ✔✗	1.5k	661693 ✔✗	5.6k	661870 ✔✗	33k	662119	330k	662362	3.6M
659825	11	661221	68	661386 ✔✗	* 330	661554	1.6k	661714 ✗	6.8k	661896	39k	662127	360k	662397	4.7M
659833	12	661239	75	661407 ✗	390	661562	1.8k	661731	8.2k	661909	43k	662135	390k	662426	6.2M
659841	13	661247	82	661423 ✔✗	470	661571 ✔✗	2.0k	661757 ✔# * 10k	661917 ✔✗	* 47k	662151 ✔✗	470k	662469	9.1M
659850	15	661263 ✔#	* 100	661431	510	661589 ✔✗	2.2k	661773	12k	661933	56k	662186	620k	662477 ✔✗	10M

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Passives

Passives

5-Watt Wirewound Resistors (5%)

Horizontal Mount/Axial Lead
- Temperature range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable

.354" | .393" | 0.03" Lead dia. | 1.38" | 0.87"
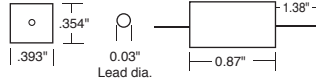
See resistor value chart on right	1	10	100	500
Pricing	$.45	$.39	$.35	$.29

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660295	5.0	660623	100
659964	0.15	660375	10	660877	1.0k
660050	0.5	660447	20	661010	4.7k
660130	1.0	660480	27	661036	10k
660201	2.0	660551	50		
660279	4.0	★ 2W/5W/9W/10W Wirewound Resistors — Enter Web Code TCH			

Dual-In-Line "DIP" Resistor Networks ±2% (G)

16-Pin (140mW/Resistor) ±2%
- Max. operating voltage: 100V
- Temp. coefficient:±100ppm/°C
- Operating temperature:-55°C to +125°C
- Insulation res.: 10,000MΩ min.

★ Web Code: GAP

✳ Order in multiples of 10

	1	10	100	500
Pricing	$.59	$.55	$.49	$.45
Orange Pricing	✳	.12	.09	.07

Part No.	Ohms	Part No.	Ohms
108556	100	108599	1.0k
856095	120	87601	*1.0k
108564	220	108610	4.7k
108572	330	108628	10k
108581	470		

*Bussed

0805 (1/8W) Chip Resistor Assortment (±5%)

★ Web Code: CKS

144 Values, 50 pcs. each
- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases):
  10.5"L x 6.7"W x 1.7"T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

Resistance Value Chart:

2.2	12	91	510	3.0k	16k	75k	470k	2.7M
2.4	20	100	560	3.3k	18k	82k	510k	3.0M
2.7	22	120	620	3.6k	20k	91k	560k	3.3M
3.0	24	150	680	3.9k	22k	100k	620k	3.6M
3.3	27	160	750	4.3k	24k	120k	680k	3.9M
3.9	30	180	820	4.7k	27k	150k	750k	4.3M
4.3	33	200	910	5.1k	30k	160k	820k	4.7M
4.7	39	240	1.0k	5.6k	33k	180k	910k	5.1M
5.1	43	240	1.2k	6.2k	36k	200k	1.0M	5.8M
5.6	47	270	1.5k	6.8k	39k	240k	1.2M	6.2M
6.2	51	300	1.6k	7.5k	43k	270k	1.5M	6.8M
6.8	56	330	1.8k	8.2k	47k	300k	1.6M	7.5M
7.5	62	360	2.0k	9.1k	51k	330k	1.8M	8.2M
8.2	68	390	2.2k	10k	56k	360k	2.0M	9.1M
9.1	75	430	2.4k	12k	62k	390k	2.2M	10M
10	82	470	2.7k	15k	68k	430k	2.4M	

Part No.	Product No.	1	5	25
172806	16-500	$79.95	$69.95	$59.95

★ SIP Resistor Networks — Enter Web Code WRN

★ 1/4-Watt 1% Metal Film Resistors — Enter Web Code MFR

125mW SIP Bussed Conformal Coated Resistor Network

★ Web Code: WRN

YAGEO

Part No.	Pins	Ohms	Tol. (±%)
268032	6	10k	2
97826	8	10k	2
97851	10	330	2
97869	10	470	2
97877	10	1.0k	2
97893	10	2.2k	2
24660	10	4.7k	2
24643	10	10k	2

✳ Order in multiples of 10

	1	10	100
Pricing	$.29	$.25	$.19
Orange	✳	.12	.09

Part No.	Pins	Ohms	Tol. (±%)
2077714	10	10k	5
2078080*	10	10k	5
98095	10	100k	2

*Isolated

1206 (1/4W) Chip Resistor Assortment (±1%)

★ Web Code: CKS

56 Values, 200 pcs. each; 11,200 pcs. Total
- Maximum working voltage: 200V
- Operating temp.: 70°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5W x 0.55H
- Packaged 200 pc. strip

Value Chart (Ohms)

10	121	1.5k	20k	243k
12.1	150	2k	24.3k	301k
15	200	2.43k	30.1k	392k
20	243	3.01k	39.2k	499k
24.3	301	3.92k	49.9k	619k
30.1	392	4.99k	61.9k	750k
39.2	499	6.19k	75k	909k
49.9	619	7.5k	90.9k	1M
61.9	750	9.09k	100k	
75	909	10k	121k	
90.9	1k	12.1k	150k	
100	1.21k	15k	200k	
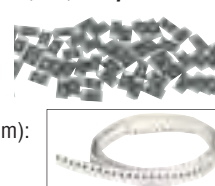
Part No.	Cross Ref. No.	1	5	25
156882	SMR1206SB	$99.95	$89.95	$74.95

★ RC Series 1% SMD Thick Film Resistors — Enter Web Code SMF

★ RC Series 5% SMD Thick Film Resistors — Enter Web Code THF

Chokes

JAMECO ValuePro

★ Web Code: WBG

J.W. Miller Series Equivalents   208194   642741

✳ Order in multiples of 10

Part No.	Cross Ref. No.	Description	Inductance Value (µH) ±10%	1	10	100
372357	9230-20-VP	Phenolic core molded axial	1	$.59	$.49	$.39
372171	78F100J-VP	Conformal coated axial choke	10	✳	.19	.15
208194	CEC-101J	Conformal coated choke	100	✳	.19	.15
642492	5300-25	Conformal coated RF choke	100	.55	.39	.29
208240	CEC-102J	Conformal coated choke	1000	.35	.29	.25
642695	5800-102	High current axial RF choke	1000	.69	.55	.39
642724	5800-472	High current axial RF choke	4700	.69	.55	.39
642741	5800-103	High current axial RF choke	10000	.69	.55	.39
642927	5900-103	High current axial RF choke	10000	.99	.79	.59

High-Current Toroid Inductors

JAMECO ValuePro

J.W. Miller 2100/2300 Series Value Equivalents
- Low radiation
- Low core loss
- Operating temperature: -55°C to +105°C

★ Web Code: KBY

Part No.	Cross Ref.	Description	L(µH) @ 1kHz	Horizontal 1	Vertical 10	100
371549	2105-H	Horizontal	22	$1.25	$1.09	$.99
371581	2109-H	Horizontal	47	1.25	1.09	.99
371856	2112-V	Vertical	100	1.25	1.09	.99
371872	2114-V	Vertical	150	1.25	1.09	.99
387268	2316-V	Vertical	220	1.75	1.49	1.25
371952	2122-V	Vertical	680	1.25	1.09	.99
371979	2124-V	Vertical	1000	1.25	1.09	.99

Bourns®   JAMECO ValuePro   2W 22mm 10-Turn Wirewound Precision Pots

- Insulation resistance @ 500VDC: 1000MΩ (Bourns), 100MΩ (JVP)
- Operating temp. range: +1°C to +125°C (Bourns), -55°C to +125°C (JVP)
- Solder lug panel mount
- Bushings:
  M-metal; P-plastic

★ Web Code: JBE

855818   2182611

			Manufacturer							
			Jameco ValuePro				Bourns®			
Ohms	Series	Power Rating	Part No.	M/P	1	10	100	Part No.	M/P	1	10	100
1k	3540S	2W @ 70°C	2177846	M	$9.95	$8.95	$7.95	—	—	—	—	—
1k	3590S	2W @ 40°C	2177504	M	9.95	8.95	7.95	—	—	—	—	—
5k	3540S	2W @ 70°C	2111880	M	14.95	13.49	11.95	183548	M	$24.95	$22.95	$19.95
5k	3590S	2W @ 40°C	2177512	M	9.95	8.95	7.95	—	—	—	—	—
5k	3590S	2W @ 40°C	2178161	P	9.95	8.95	7.95	855818	M	13.95	12.49	10.95
10k	3540S	2W @ 70°C	2177854	M	9.95	8.95	7.95	183521	M	19.95	17.95	15.95
10k	3590S	2W @ 40°C	2177521	M	9.95	8.95	7.95	771121	P	14.95	13.49	11.95
10k	3590S	2W @ 40°C	1946535	P	9.95	8.95	7.95	771155	M	13.95	12.49	10.95
100k	3540S	2W @ 70°C	2177862	M	9.95	8.95	7.95	—	—	—	—	—
100k	3590S	2W @ 40°C	2177539	M	9.95	8.95	7.95	771139	P	16.95	14.95	13.49
			2182611	Additional panel mtg hardware (3/8" hex nuts & washer)			.69	.59	.49		

Hi-Power Fixed Ceramic Resistors

JAMECO ValuePro

NEW MARKED IN PINK

- P/N 2160016: 2Ω;
  P/N 2160024: 10Ω
- Size: 3.0"L x 1.0"W x 1.56"H

Includes: Mounting bracket, 25 watts, 5% tolerance

Part No.	Mfr. Part No.	1	10	100
2160016	25/20FC2R0-813	$2.49	$2.25	$1.95
2160024	25/20FC10R0-813	2.49	2.25	1.95

Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade

Part No.	Description	Size	1	10	100
153315	Trimmer tool	5.2"L	$1.95	$1.75	$1.49

Vertical Mount Trimmer
JAMECO ValuePro

- 15mm thick • Tolerance:±20%
- Power rating: 200VAC – 1/2 watt; 350VDC – 1/4 watt
- Total rotation: 260° ±5° for 350VDC rated 250° ±20° for 200VAC rated

Fig. 1   Fig. 2

Part No.	Fig.	Ohms	Volt. Rating	1	10	100
2190611	1	100	200VAC	$.65	$.55	$.45
2190629	1	1k	200VAC	.65	.55	.45
94693	2	1k	350VDC.........	.59	.49	.39
35503	2	2.5k	350VDC.........	.59	.49	.39
2190637	1	10k	200VAC	.65	.55	.45
94714	2	10k	350VDC.........	.59	.49	.39
94722	2	50k	350VDC.........	.59	.49	.39
2190645	1	100k	200VAC	.65	.55	.45
94731	2	100k	350VDC.........	.59	.49	.39

1/2-Watt, 3/8" Square, Single-Turn

- Trimmer w/ shaft • 3 positions
- Shaft length: 0.32"
- 0.1" lead spacing

★ **Web Code: TDF**

2118803

Part No.	Mfr. Part No.	Ohms	1	10	100
2161385	18STS500	500	$1.25	$1.09	$.95
2118803	18STS1K	1k	1.25	1.09	.95
2161393	18STS5K	5k	1.25	1.09	.95
2118791	18STS10K	10k	1.25	1.09	.95
2161406	18STS100K	100k	1.25	1.09	.95
2161414	18STS500K	500k	1.25	1.09	.95
2161422	18STS1M	1M	1.25	1.09	.95

24mm Audio Taper (±20%)

- Terminal type: solder lugs
- Body diameter: 0.945"
- Shaft dia.: 0.25" • Shaft length: 0.335"
- Rotational angle: 300° (±5°)
- Max. voltage: 250V
- Insulation resistance: >100MΩ @ 500VDC

★ **Web Code: MBQ**

255426

Use 2182602 for additional panel mounting hardware, pg 79

Qty.	Power Rating	1	10	100
Single Audio	1/4 watt	$1.55	$1.39	$1.25
Dual Audio	1/2 watt	2.25	2.09	1.89

Part No.	Manufacturer Part No.	Audio Type	Ohms
2181458	RV24BF-10-15R1-A1K	Dual	1k
255426	RV24AF-10-15R1-A14	Single	10k
2181466	RV24BF-10-15R1-A10K	Dual	10k
255434	RV24AF-10-15R1-A54	Single	50k
255442	RV24AF-10-15R1-A15	Single	100k
2181474	RV24BF-10-15R1-A100K	Dual	100k
255451	RV24AF-10-15R1-A55	Single	500k
255469	RV24AF-10-15R1-A16	Single	1M
2181482	RV24BF-10-15R1-A1M	Dual	1M

2 & 5-Watt 24mm Linear Taper Wirewound (±20%)
JAMECO ValuePro

- Temp. range: -10°C to +70°C
- Non-rotational key • Base length: 0.25"

123960

123960 *(Use 2182611 for additional PNL MTG hardware)*
- Shaft length/diameter: 0.825"/0.25"
- Mounting hole: 0.375"

140514 *(Use 2182602 for additional PNL MTG hardware)*
- Shaft length/diameter: 0.67"/0.23" (6mm)
- Mounting hole: 0.32"
- Max. panel thickness: 0.1"

140514

Part No.	Watts	Ohms	1	10	100
123960	2	1k	$4.75	$3.95	$3.49
140514	5	100	3.75	3.39	2.95

1/8 & 1/5-Watt 16mm Linear Taper (±20%)
(a) ALPHA

- Rated voltage: 200V • Body dia.: 0.63"
- Shaft diameter: 0.250"
- Insulation resistance: >100MΩ @ 500VDC

286193

1/8-Watt *(Use 2182688 for additional PNL MTG hardware)*
- Rotational angle: 300° (±5°) • Rotation life: 15k cycles

Qty.	1	10	100
Pricing	$1.39	$1.19	$1.05

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286193	RV16AF-10-20R1-B53	0.531"	5k
286206	RV16AF-10-20R1-B14	0.531"	10k
286214	RV16AF-10-20R1-B54	0.531"	50k
286222	RV16AF-10-20R1-B55	0.531"	500k

1/5-Watt *(Use 2182688 for additional PNL MTG hardware)*
- Shaft diameter: 0.25" • Body diameter: 0.63"

Qty.	1	10	100	500
Pricing	$1.59	$1.35	$1.15	$.99

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286249	RV16AF-10-15R1-B13	0.335"	1k
286265	RV16AF-10-15R1-B53	0.335"	5k
286273	RV16AF-10-15R1-B14	0.335"	10k
286282	RV16AF-10-15R1-BF4	0.335"	25k
286302	RV16AF-10-15R1-B15	0.335"	100k
286337	RV16AF-10-15R1-B16	0.335"	1M
163563	PMD401K (10 detents)	0.605"	10k

1/2-Watt 24mm Linear Taper (±10%)
JAMECO ValuePro

- Temp. range: -55°C to +125°C
- Non-rotational key, non-slotted shaft end
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft dia.: 0.25" • Shaft length: 0.355"

Includes: Mounting hardware

2133675

*Use 2182602 for additional panel mounting hardware (except * 2133675 – use 2182611), pg 79*

Qty.	1	10	100	500
Pricing	$1.25	$1.09	$.95	$.85
Orange Pricing	.99	.89	.79	.65

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
29050	P1K	1k	29082	P10K	10k
2133675	B1K*	1k	29103	P100K	100k
29197	P5K	5k	29066	P1MEG	1M

*Mounting hole: 0.375"; shaft length: 0.375"

2-Watt 22mm Linear Taper (±10%)

- 2W @ 70°C ambient • Non-rotational key
- Temp. range: -55°C to +120°C
- Shaft length: 0.875" • Shaft dia.: 0.25"
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"

Honeywell

13936

Includes: Mounting hardware
Use 2182611 for additional panel mounting hardware, pg 79

Qty.	1	10	50
Pricing	$9.95	$8.95	$7.95
Orange Pricing	6.95	6.25	5.59

Part No.	Military No.	Ohms	Part No.	Military No.	Ohms
241568	RV4NAYSD101A	100	2160518	R24KM-B10K*	10k
13936	RV4NAYSD102A	1k	241656	RV4NAYSD203A	20k
13995	RV4NAYSD502A	5k	13979	RV4NAYSD104A	100k
2160526	R24KM-B5K*	5k	241728	RV4NAYSD105A	1M
13952	RV4NAYSD103A	10k	*Jameco ValuePro		

★*Linear Taper Potentiometers — Enter Web Code JAE*

1/2-Watt 24mm Linear Taper (±20%)
(a) ALPHA

- Rotational angle: 300° (±5°)
- Max. voltage: 500V • Shaft Diameter: 0.25"
- Withstanding voltage for 1 minute: 500VAC
Use 2182602 for additional panel mounting hardware

255477   264373   255662
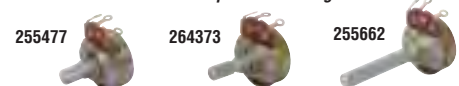
Qty.	1	10	100
Pricing	$1.55	$1.39	$1.25

Part No.	Manufacturer Part No.	Shaft Length	Ohms
255477	RV24AF-10-15R1-B52	0.335"	500
255485	RV24AF-10-15R1-B13	0.335"	1k
255493	RV24AF-10-15R1-B23	0.335"	2k
255514	RV24AF-10-15R1-B53	0.335"	5k
255522	RV24AF-10-15R1-B14	0.335"	10k
255531	RV24AF-10-15R1-BF4	0.335"	25k
255549	RV24AF-10-15R1-B54	0.335"	50k
255557	RV24AF-10-15R1-B15	0.335"	100k
255565	RV24AF-10-15R1-BF5	0.335"	250k
255573	RV24AF-10-15R1-B55	0.335"	500k
255582	RV24AF-10-15R1-B16	0.335"	1M
255600	RV24AF-10-15R1-B26	0.335"	2M
264373	RV24AF-10-20K-B52	0.531"	500
264382	RV24AF-10-20K-B13	0.531"	1k
264402	RV24AF-10-20K-B53	0.531"	5k
264411	RV24AF-10-20K-B14	0.531"	10k
264437	RV24AF-10-20K-B15	0.531"	100k
264462	RV24AF-10-20K-B16	0.531"	1M
255662	RV24AF-10-40R1-B14	1.32"	10k
255696	RV24AF-10-40R1-B15	1.32"	100k

1/2-Watt 24mm Linear Taper with SPST Switch (±20%)
(a) ALPHA

- Shaft diameter: 0.25"
- Maximum voltage: 500V
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)

263768

Use 2182602 for additional panel mounting hardware, pg 79

Qty.	1	10	100
Pricing	$1.95	$1.75	$1.59

Part No.	Manufacturer Part No.	Shaft Length	Ohms
263768	RV24A01F-10-15R1-B13	0.335"	1k
263792	RV24A01F-10-15R1-B14	0.335"	10k
263822	RV24A01F-10-15R1-B100K	0.335"	100k
263848	RV24A01F-10-15R1-B55	0.335"	500k

2-Watt 25mm Single-Turn Linear Taper (±10%)

- Power rating: 2 watts at 70°C
- Mechanical rotation: 314°
- Rotational life: 25,000 cycles
- Operating temp.: -65°C to +125°C
- Shaft size: 1.0"L x 0.25"Dia.
- Mounting hole: 0.37" • Mil style RV4

Use 2182611 for additional panel mounting hardware, pg 79

Part No.	Cross Ref.	Ohms	1	10	50
2172826	K1716	5k	$6.95	$5.95	$4.95

Slide Potentiometers

- 200mW rating
- 15,000 cycle slide life

(a) ALPHA

2203961

Part No.	Length	Ohms	1	10	100
2203961	60mm	10k	$1.95	$1.75	$1.59
2203987	60mm	50k	1.95	1.75	1.59

Passives

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Cermet Trimmer Potentiometers

JAMECO ValuePro

Bourns®, Vishay/Spectrol, Bitech (Beckman) Series Equivalents

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- Resistance tolerance: ±10%
- Insulation resistance: 1000MΩ min. (500VDC)
- Absolute min. resistance: 2Ω
- Temp. range: -55°C to 125°C

★ **Web Code: TDF**

Bourns® 3266 Series, Vishay/Spectrol 64W Series
- 1/4 watt, 1/4" square, 12-turn top adjustment

Part No.	Series	Value (Ω)	1	10	100
254642	3266W	1k	$1.95	$1.75	$1.49
254669	3266W	5k	1.75	1.49	1.25
254677	3266W	10k	1.95	1.75	1.49
254714	3266W	100k	1.95	1.75	1.49
1156331	3266X	10k	1.75	1.49	1.25

Bourns® 3329 Series, Vishay/Spectrol 62-3, 62-1 Series
- 1/2 watt, 1/4" round, single-turn top adjustment

Part No.	Series	Value (Ω)	1	10	100
854452	3329H	2k	$1.19	$.99	$.75
854487	3329H	20k	1.19	.99	.75
854567	3329Hß	50k	1.19	1.09	.99
2133667	3329Hß	500k	1.19	1.09	.99
95441	3329P	1k	1.19	1.09	.99
96719	3329P	10k	1.19	1.09	.99
95484	3329P	100k	1.19	1.09	.99

Bourns® 3362 Series, Vishay/Spectrol 76P Series
- 1/2 watt, 1/4" square, single-turn

Part No.	Series*	Value (Ω)	1	10	100
770371	3362Hß	10k	$.89	$.79	$.69
182810	3362P	500	.89	.79	.69
253982	3362P	1k	.89	.79	.69
182829	3362P	5k	.89	.79	.69
182837	3362P	10k	.89	.79	.69
254002	3362P	20k	.89	.79	.69
254028	3362P	50k	.89	.79	.69
254036	3362P	100k	.89	.79	.69
254044	3362P	500k	.89	.79	.69
254115	3362P	1M	.89	.79	.69
2133771	3362U-1-102	1k	.75	.65	.55
2133780	3362U-1-105	1M	.75	.65	.49
254166	3362W	500	.89	.79	.69
254175	3362W	1k	.75	.65	.55
254204	3362W	10k	.75	.65	.55

*H,P&U: top adjustment; X&W: side adjustment   ß Mfr.: Bourns

Bourns® 3386 Spectrol 63, BI Tech 72 Series
- 1/2 watt, 3/8" square, single-turn

Part No.	Series*	Value (Ω)	1	10	100
254297	3386P	100	$1.19	$1.09	$.99
43123	3386P	500	1.25	1.09	.79
42964	3386P	1k	1.25	1.09	.99
43043	3386P	2k	1.25	1.09	.79
43078	3386P	5k	1.25	1.09	.99
43001	3386P	10k	1.25	1.09	.79
43051	3386P	20k	1.25	1.09	.99
254377	3386P	25k	1.25	1.09	.99
43107	3386P	50k	1.25	1.09	.79
43027	3386P	100k	1.25	1.09	.99
43060	3386P	300k	1.25	1.09	.99
63212	3386P	500k	1.25	1.09	.79
42981	3386P	1M	1.25	1.09	.99
105216	3386P	2M	1.25	1.09	.99
241445	3386W	5k	1.09	.99	.89
241454	3386W	10k	1.09	.99	.89
771024	3386X	100	.99	.89	.79
264701	3386X	50k	.99	.89	.79

*P: top adjustment; W & X: side adjustment

Bourns® 3296 Spectrol 64, BI Tech 64 Series
- 1/2 watt, 3/8" rectangular, 25-turn

Part No.	Series	Value (Ω)	1	10	100
2037982	3296P	1k	$1.49	$1.25	$.99
769354	3296P	5k	1.49	1.25	1.09
853513	3296P	10k	1.49	1.25	1.09
769320	3296P	1M	1.49	1.25	1.09
853530	3296W	100	1.75	1.49	1.25
853759	3296Wß	500	1.75	1.49	1.25
853556	3296Wß	1k	1.75	1.49	1.25
853775	3296Wß	5k	1.75	1.49	1.25
241146	3296W	10k	1.49	1.25	1.09
853572	3296Wß	10k	1.75	1.49	1.25
853679	3296Wß	20k	1.75	1.49	1.25
853791	3296Wß	50k	1.75	1.49	1.25
853599	3296W	100k	1.75	1.49	1.25
240725	3296Y	100	1.49	1.25	1.09
240750	3296Y	1k	1.49	1.25	1.09
240777	3296Y	5k	1.49	1.25	1.09
240427	3296Y	10k	1.49	1.25	1.09
240470	3296Y	100k	1.49	1.25	1.09

*P: side adjustment; W&Y: top adjustment   ß Mfr.: Bourns

3329H **3362P** **3296W** **3006P**
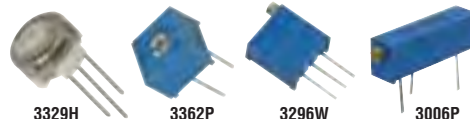
Bourns® 3299 Series, Vishay/Spectrol 68W Series
- 1/2 watt, 3/8" square, 25-turn top adjustment

Part No.	Series	Value (Ω)	1	10	100
241082	3299W	100	$1.49	$1.25	$1.09
241104	3299W	500	1.49	1.25	1.09
241111	3299W	1k	1.49	1.25	1.09
241121	3299W	2k	1.49	1.25	1.09
241139	3299W	5k	1.49	1.25	1.09
240602	3299W	10k	1.49	1.25	1.09
238633	3299W	20k	1.49	1.25	1.09
241189	3299W	100k	1.49	1.25	1.09
241219	3299W	1M	1.49	1.25	1.09

Bourns® 3006 Spectrol 43, BI Tech 89 Series
- 3/4 watt, 3/4" rectangular, 15-turn side adjustment

Part No.	Series	Value (Ω)	1	10	100
695990	3006P	100	$1.25	$.99	$.79
241242	3006P	200	1.25	1.09	.99
41937	3006P	500	1.25	1.09	.99
241269	3006P	1k	1.25	1.09	.99
41865	3006P	2k	1.25	1.09	.99
41890	3006P	5k	1.25	1.09	.99
41822	3006P	10k	1.25	1.09	.99
241294	3006P	10k	1.49	1.25	1.09
41873	3006P	20k	1.25	1.09	.99
241314	3006P	25k	1.25	1.09	.99
241323	3006P	50k	1.25	1.09	.99
41849	3006P	100k	1.25	1.09	.99
63001	3006P	200k	1.25	1.09	.89
41953	3006P	500k	1.25	1.09	.99
241374	3006P	1M	1.25	1.09	.99
2162901	3006P✓	2M	1.25	1.09	.89
2178380	3006W	100	.99	.89	.75
2178460	3006W✓	500	.99	.89	.75
2178398	3006W	100k	.99	.89	.75
2178427	3006W✓	200k	.99	.89	.75
2180463	3006Y	100	1.09	.99	.89
2180471	3006Y	5k	1.09	.99	.89

*P: side adjustment; W&Y: top adjustment   ✓Mfr.: Vishay

★ *Membrane Sensor/Potentiometer — Enter Web Code MEM*

Instrumentation Knobs (1/4" & 1/8" Shaft Diameters)

JAMECO ValuePro   ★ **Web Code: EBD**

Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 | Fig. 6 | Fig. 7 | Fig. 8 | Fig. 9 | Fig. 10 | Fig. 11 | Fig. 12 | Fig. 13 | Fig. 14

Par+t No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100
265009	JK-902B	Black	White	.60 x .95	1	$1.09	$.99	$.89
264998	JK-902A	Black	White	.69 x 1.31	1	1.09	.99	.89
264990	JK-901D	Black/alum	White	.47 x .78	2	.99	.89	.79
264955	JK-901C	Black/alum	White	.61 x 1.06	2	1.09	.99	.89
264946	JK-901B	Black/alum	White	.64 x 1.29	2	1.25	1.09	.99
264920	JK-901A	Black/alum	White	.79 x 1.77	2	1.95	1.75	1.49
264912	RN-114A	Black/alum	Numeric	.58 x 1.46	3	.99	.89	.79
2158143	RN-12P0S§	Black/alum	Numeric	.70 x 1.50	3	.79	.69	.59
264892	RN-113A	Black/alum	Numeric	.70 x 1.15	3	1.09	.99	.89
264883	RN-112A	Black/alum	Numeric	.90 x 1.46	3	1.09	.99	.89
102788	JK-903C	Black	White	.54 x 1.25	4	.79	.69	.59
104176	JK-902C	Black	White	.49 x .75	5	1.09	.99	.89
202287	CP-Z1-M-S	Black/alum	White	.60 x .80	6	1.09	.99	.89
136241	GKB-214	Black/alum	White	.52 x .54	7	1.25	1.09	.99
138393	41108-1	Black/alum	White	.56 x .85	7	1.49	1.25	1.09
265077	JK-905C	Black/blue	White	.58 x .57	8	.99	.89	.79

| Part No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100
265084	JK-905D	Black/green	White	.58 x .57	8	$.99	$.89	$.79
265051	JK-905A	Black/red	White	.58 x .57	8	.99	.89	.79
265069	JK-905B	Black/yellow	White	.58 x .57	8	.99	.89	.79
265033	JK-904C	Black/blue	White	.47 x .78	9	.99	.89	.79
265041	JK-904D	Black/green	White	.47 x .78	9	.99	.89	.79
265018	JK-904A	Black/red	White	.47 x .78	9	.99	.89	.79
265025	JK-904B	Black/yellow	White	.47 x .78	9	.99	.89	.79
265122	JK-906	Black	White	.58 x .61	10	1.25	1.09	.99
265244	CR-MS-3-T18*	Gray	Blue	.68 x .51	11	.79	.69	.59
265261	CR-MS-5-T18*	Gray	Gray	.68 x .51	11	.79	.69	.59
265228	CR-MS-1-T18*	Gray	Red	.68 x .51	11	.79	.69	.59
2180738	KB500A1/8#	Aluminum	Black	.43 x .50	12	3.95	3.59	3.29
290125	42008-1†	Aluminum	Black	.50 x .63	12	2.49	2.25	1.95
162481	K5-1/4S	Chrome	Silver	.50 x .56	13	1.49	1.25	1.09
138482	KN031	Aluminum	Black	.61 x .65	14	2.49	2.25	1.95
138502	KN032	Aluminum	Black	.87 x .70	14	2.65	2.39	2.15

*For use with 1/4" knurled shaft   †1/8" shaft diameter   § Plastic flange   #Mfr.: Alcoswitch

JAMECO ValuePro **Crystals**

- Frequency calibration tolerance: ±50ppm @ 25°C
- Freq. stability tolerance: ±50ppm from -10° to +60°C
- Operating temperature: -10°C to +60°C
- Shunt capacitance: 7pF max.
- Drive level: 4.0mW max.

★ Web Code: EAU

HC49/U (HC18/U) Case   HC49/S (HC49/US) Case
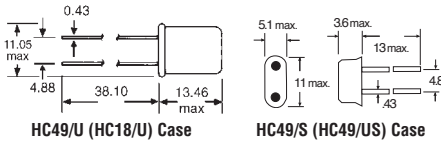
HC49/U (HC18/U) Case

Part No.	Frequency (MHz)	Impedance	1	10	100
102613	1.8432	18pF	$.49	$.39	$.35
101274	2.4576	32pF	.49	.39	.35
14533	3.579545	18pF	.49	.39	.35
324364	4.0	Series	.49	.39	.35
14592	4.0	20pF	.49	.39	.35
14728	8.0	Series	.49	.39	.35
14381	10.0	Series	.49	.39	.35
120061	11.0592	Series	.49	.39	.35
324110	11.0592	32pF	.49	.39	.35
2159630	12.0	20pF	.49	.39	.35
14402	12.0	Series	.49	.39	.35
537799	14.31818	Series	.49	.39	.35
324187	14.7456	20pF	.49	.39	.35
14453	16.0	Series	.49	.39	.35
324268	20.0	20pF	.49	.39	.35
14517	20.0	Series	.49	.39	.35

HC49/US Low Profile Case

Part No.	Frequency (MHz)	Impedance	1	10	100
324962	4.0	20pF	$.59	$.55	$.49
324929	5.0	20pF	.59	.55	.49
325198	12.0†	20pF	.59	.55	.49
325139	16.0	20pF	.59	.55	.49
325068	20.00	20pF	.59	.55	.49
325024	24.0	20pF	.59	.55	.49

† Industrial temperature range is -40°C to 85°C

HC49/S Low Profile Case

- ±5ppm/year max.
- Drive level: 0.5mW (fundamental frequency)

Part No.	Frequency (MHz)	Impedance	1	10	100
137832	4.0	17pF	$.49	$.35	$.29
137859	8.0	Series	.69	.59	.45
137875	11.0592	Series	.49	.35	.29
137891	16.0	Series	.49	.35	.29

JAMECO ValuePro **Crystal Oscillator Sockets**

- Can be PCB-mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins

133006

Part No.	Description	1	10	100
676385	8-pos. socket for half can	$.55	$.45	$.35
133006	14-pos. socket for full can	.65	.55	.45

JAMECO ValuePro **Tuning Forks**

- Operating temperature range: -10°C to +60°C
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance: ±50ppm
- Aging for first year: ±3ppm (max. +25°C)
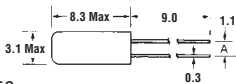
Part No.	Comparable to:	Imped.	1	10	100
14584	CY32.76	10.5pF	$.49	$.45	$.39
325244	JVP-325243	12.5pF	.49	.45	.39

JAMECO ValuePro **TTL Oscillators**

- Frequency stability ±100ppm
- Operating temp.: 0°C to 70°C
- Output load TTL: 10 TTL max.
- Machine tooled 4 pins

Full Can

Full Can / Half Can

- Input volt.: +5VDC ±0.5VDC
- Most fit into a 14-pos. DIP socket P/N 133006, below

Pin #	Function
1	N/C
7	GND
8	Output
14	+5VVs
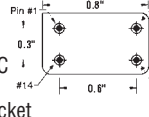
★ Web Code: XAD

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	1	10	100
27861	1.0	7mA	15ns	$1.95	$1.79	$1.59
27879	1.8432	7mA	15ns	1.95	1.79	1.59
27924	2.0	7mA	15ns	1.49	1.35	1.19
27967	4.0	7mA	10ns	1.95	1.79	1.59
27991	8.0	15mA	10ns	1.49	1.35	1.19
27887	10.0	15mA	10ns	1.49	1.35	1.19
27895	12.0	15mA	10ns	1.49	1.35	1.19
27932	20.0	17mA	10ns	.75	.59	.39
2135321	24.0	30mA	8ns	.59	.49	.39
27941	32.0	18mA	7ns	.79	.69	.59
76822	33.0	18mA	6ns	1.95	1.79	1.59
153226	40.0	15mA	6ns	.99	.89	.79
2095381	60.0	65mA	5ns	.75	.65	.55

Half Can

- Input voltage: +3.3VDC ±10%
- Most fit into a 8-pos. DIP socket P/N 676385, below

Pin #	Function
1	N/C
4	GND
5	Output
8	+3.3VVs
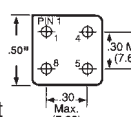
★ Web Code: MAM

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	1	10	100
325462	1.0	15mA	10ns	$1.19	$1.09	$.99
102779	10.0	30mA	6ns	1.35	1.19	1.09
325665	20.0	30mA	10ns	1.09	.99	.89
325702	32.0	70mA	5ns	.45	.35	.25
354853	50.0	70mA	10ns	.75	.69	.65

CARDINAL COMPONENTS **Field Programmable TTL Oscillators**

- Program w/ PG-3000 (P/N 2208121, below)
- 3.3V, 25mA, ≤4ns • Tri-State
- Can be reprogrammed one time (blanks can be programmed twice) from 0.5-133MHz frequency range
- -40° to +85°C • Stability: ±50 ppm

Half Can

Part No.	Frequency (MHz)	Can	1	10	100
2207988	1.0	Half	$9.95	$5.95	$4.95
2208016	1.0	Full	9.95	5.95	4.95
2208024	1.8432	Full	9.95	5.95	4.95
2208032	2.0	Full	9.95	5.95	4.95
2208041	4.0	Full	9.95	5.95	4.95
2208059	8.0	Full	9.95	5.95	4.95
2207996	10.0	Half	9.95	5.95	4.95
2208067	10.0	Full	9.95	5.95	4.95
2208008	20.0	Half	9.95	5.95	4.95
2208075	20.0	Full	9.95	5.95	4.95
2208083	33.0	Full	9.95	5.95	4.95
2208091	40.0	Full	9.95	5.95	4.95
2208753	Blank	Full	12.95	11.65	10.49
2208761	Blank	Half	12.95	11.65	10.49
2208770	Blank	5x7 SMD	7.95	6.95	5.95

Part No.	Description	Price
2208121	Selectable CMOS/TTL programmer	$489.95

5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/CEE4 spec.
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

Part No.	Mfr. Part No.	1	10	25
645343	K/FF	$15.95	$14.95	$13.95

★ Miscellaneous Fuses — Enter Web Code SVE

JAMECO ValuePro **Fuses**

5mm x 20mm Mini Fast Acting GMA Fuses (250V)

★ Web Code: QAM

- Recommended for new designs

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
103887	JVP	GMA-250mA	.25A	$.29	$.25	$.22
102041	JVP	GMA-500mA	.5A	.29	.25	.22
103908	JVP	GMA-1	1A	.29	.25	.22
103916	JVP	GMA-2	2A	.29	.25	.22
103924	JVP	GMA-3	3A	.29	.25	.22
103932	JVP	GMA-5	5A	.29	.25	.22
2159664	JVP	GMA-16	16A	✱	.22	.17

1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses

★ Web Code: AAB

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
69404	JVP	AGC-250mA	.25A	$.35	$.29	$.25
10410	JVP	AGC-0.5	.5A	.35	.29	.25
10373	JVP	AGC-1	1A	.35	.29	.25
652949	LTL	312001.HXP	1A	.35	.29	.25
2205472	BSM	AGC-1-1/4	1.25A	.35	.29	.25
197528	JVP	AGC-1.6	1.6A	.29	.25	.21
10382	JVP	AGC-2	2A	.35	.29	.25
69439	JVP	AGC-3R	3A	.35	.29	.25
197544	JVP	AGC-4	4A	.35	.29	.25
10402	JVP	AGC-5	5A	.35	.29	.25
197552	JVP	AGC-6.3	6.3A	.35	.29	.25
69462	JVP	AGC-10	10A	.35	.29	.25
186301	JVP	AGC-16	16A	.35	.29	.25

5mm x 20mm Mini Slow Blow GMD Fuses (250V)

★ Web Code: MSB

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
197502	JVP	GMD-500mA	0.5A	$.39	$.35	$.29
2129836	BEL	5ST(P)630	0.63A	.39	.35	.29
103827	BSM	GMC-1A*	1A	.39	.35	.29
197465	JVP	GMD-1	1A	.39	.35	.29
197472	JVP	GMD-2	2A	.39	.35	.29
197482	JVP	GMD-3.15	3.15A	.39	.35	.29
197500	JVP	GMD-5	5A	.39	.35	.29

* Medium time delay type

1 1/4" x 1/4" Standard Slow Blow MDL/3AG Fuses (250V)

★ Web Code: EAD

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
25655	JVP	MDL-1/4	.25A	$.59	$.55	$.49
25689	JVP	MDL-1/2	.5A	.59	.55	.49
25639	JVP	MDL-1	1A	.59	.55	.49
25646	JVP	MDL-2	2A	.59	.55	.49
69535	JVP	MDL-3	3A	.49	.45	.39
25672	JVP	MDL-5	5A	.59	.55	.49
653589	LTL	313008HXP	8A	1.49	1.35	1.19
69570	JVP	MDL-10	10A	.59	.55	.49

✱ BEL = BEL Fuse | BSM = Bussmann | JVP = ValuePro | LTL = Littelfuse

Passives

3 LEVELS OF SAVINGS
NAME BRANDS / HOUSE BRANDS / SPECIAL BUY

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Order by Phone at 1-800-831-4242 or Online at www.Jameco.com   41

Circuit Breakers

- Quick connect style terminals (.25")
- Actuator: black plastic button
- Mounting hole: 0.450"
- Current rated for 125/250VAC/32VDC
- P/N 2186013: 1.1"L x .51"W x .79"H

Includes: Nut, knurled nut, ID plate
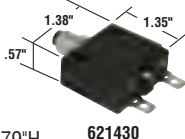
★ Web Code: LCF

Part No.	Mfr. P/N	Curr. Rating (A@VAC)	1	10	100
2187868	98-05-A1B14-A0B	5 @ 125/250	$2.95	$2.75	$2.49
621376	35-2105	5 @ 125/250 ..	3.49	2.95	2.75
621413	35-2110	10 @ 125/250 ..	2.95	2.59	2.25
2173061	W58-XB1A4A-10	10 @ 125/250 ..	2.95	2.59	2.25
621430	35-2115	15 @ 125/250 ..	2.95	2.59	2.25
2186013	SS-001*	15 @ 125	9.95	8.95	7.95
621448	35-2120	20 @ 125/250 ..	3.49	2.95	2.75
612470	W28-XQ1A-20†	20 @ 250	2.49	2.25	1.95

*Rocker switch style (snap-in), Reset/Off mark
†Rocker switch style (snap-in), 0.6" mounting hole

20A Circuit Breaker Leakage Protection Switch

NEW MARKED IN PINK

- Earth leakage circuit protector
- 100-240VAC @ 50/60Hz 1000A, 20A
- Rated current: 20A
- 4 terminal line/load connection
- On-Trip-Off flip switch
- Test push button • High speed type
- Size: 2.8"L x 1.2"W x 1.6"H

Part No.	Mfr. Part No.	1	10	100
2192798	EC2A2-020NZR	$3.95	$3.59	$3.29

Resettable Fuses

Polymer Positive Temperature Coefficient (PPTC) fuses improve product quality performance and are resettable.
- Rated voltage: (V_{MAX}): 60V • Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.

★ Web Code: SBF

Fig. 1   Fig. 2   Fig. 3
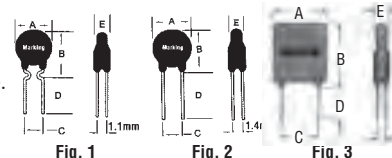
Part No.	Mfr. P/N	Hold Curr. (I_H, A)	Trip Curr. (I_T, A)	Fig.	A	B	C	E	1	10	100
199832	RA020-60	0.20	0.40	1	7.4	12.2	5.1	3.1	$.49	$.45	$.39
199858	RA030-60	0.30	0.60	1	7.4	13.0	5.1	3.1	.59	.55	.49
199874	RA050-60	0.50	1.00	1	7.9	13.7	5.1	3.1	.59	.55	.49
199912	RA110-60	1.10	2.20	2	13.0	18.0	5.1	3.1	.59	.55	.49
199938	RA160-60	1.60	3.20	2	16.3	21.3	5.1	3.1	.59	.55	.49
200062	RB500-30	5.00	10.00	3	14.0	24.9	10.2	3.0	.49	.45	.39

Auto Fuses

OPTIFUSE

Automotive Blade Low Voltage Fuse

- Standard for battery applications
- Rated at 32VDC
- Fast acting
- SAE J1284 standard
- Common names: ATO/ATC

Fig. 1 (2135961)   Fig. 2 (1769330)
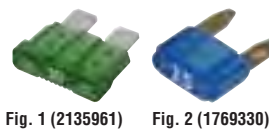
★ Web Code: ATF

Part No.	Mfr. Part No.	Fig.	Amps	1	10	100
2135890	APR-3A	1	3A	$.59	$.49	$.39
2135902	APR-5A	1	5A	.49	.39	.32
2135929	APR-10A	1	10A	.59	.49	.39
1769330	ATM-15	2	15A	.49	.39	.32
2135937	APR-15A	1	15A	.49	.39	.32
2135945	APR-20A	1	20A	.59	.49	.39
2135961	APR-30A	1	30A	.59	.49	.39

Fuse Holders

Littelfuse   ★ Web Code: UEA

Omni-Blok® Molded Base Fuse Block

- Dielectric strength: 1500V min.
- Clip/terminals: tin plated spring brass
- Solder terminal   *1 3AG   2 5x20mm

Part No.	Mfr. Part No.	Curr. Rating	Size*	1	10	100
1711947	354800-GY	20A, 300V	1 ...	$.99	$.89	$.79
2178700	5X20ST#	10A, 300V	2	.75	.59	.59
1712608	520101†	10A, 300V	2	.99	.89	.79

† PCB mount   # Mfr.: Jameco ValuePro

Panel Mount for 3AG Fuse

- Dielectric strength: 2400V min.
- Black thermoplastic, UL94V-0
- Terminals: copper & copper alloy, tin plated

Part No.	Mfr. Part No.	Curr. Rating	1	10	100
1711681	03420012H	20A, 250V	$2.29	$2.19	$2.09

JAMECO ValuePro   OPTIFUSE   Bussmann

Fuse Holders & Clips

★ Web Code: UEA

Low Profile PCB-Mount Fuse Clips

★ Web Code: UEA

†1. For GMA/GMD fuses   2. For 3AGC/MDL/AG fuses
- Low contact resistance
- Withstands shock/vibration   • Order in multiples of 10

Part No.	Description	For Use With†	Size (H" x W" x D" x P")	10	100	500
119280	5mm, side leads	1	.33 x .25 x .20 x .21	$.15	$.13	$.09
102860	5mm, front leads	1	.37 x .25 x .21 x .19	.15	.13	.09
2099438	1/4", side leads	2	.42 x .25 x .20 x .21	.15	.13	.09
102842	1/4", front leads (10A)	2	.32 x .27 x .25 x .23	.15	.13	.09

Printed Circuit Board Fuse Holder

- Current: 10A @ 250VAC

Part No.	Mfr.	Type	Size	Description	1	10	100
2178814	ValuePro	5 x 20mm	1.15"L x .48"W x .40"H	.5 lead space	$1.25	$.99	$.89

1¼" x ¼" Standard In-Line Fuse Holders

102868   2136631

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center

Part No.	Mfr.	AWG	Wire Lengths	Body Length	Color (Body/Wire)	1	10	100
109322	ValuePro	22	3.5/3"	2.4"	Black/Red	$.79	$.75	$.69
102868	ValuePro	20	3/3"	2.2"	White/Red	.89	.79	.69
151918	ValuePro	18	6/6"	2.4"	White/Red	1.19	1.09	.95
108784	ValuePro	16	21/26"	2.2"	Black/Orange	1.79	1.55	1.29
108792	ValuePro	14	19/25"	2.5"	Black/Red	2.49	2.25	1.95
2136631	Optifuse#	—	—	2.77"	Yellow	2.49	2.25	1.95

#32VDC rated @ 30A

Screw Driver Slot Fuse Holders

2178742   2178777

- Terminal   • D-style   • UL/CSA
- Mounting hole: .5"Dia. x .46" Flat

Part No.	Cross Ref.	Type	Current	Size (L" x Dia.")	1	10	100
102832	EFS609	5 x 20mm	10A @ 250VAC	1.4 x 0.6	$1.95	$1.75	$1.59
2178742	5X20LFH	5 x 20mm	20A @ 300VAC	1.7 x 0.6	1.95	1.75	1.49
2178777	FH032	1¼" x ¼"	10A @ 250VAC	1.7 x 0.7	.75	.65	.55

5mm x 20mm Mini Thumbscrew Panel Mount Fuse Holders

150464

- Straight solder terminal   • Size: 1.5"L x 0.6"Dia.

Part No.	Mfr.	Curr. (A @ VAC)	Mounting Hole	1	10	100
150464	ValuePro	6 @ 250	.50"Dia. x .43"Flat	$1.09	$.99	$.89
102825	ValuePro	10 @ 250	.50"Dia.	1.25	1.09	.95

1¼" x ¼" Standard Thumbscrew Panel Mount Fuse Holders

18703

- Straight solder terminal   • Current: 10A @ 250VAC

Part No.	Mfr.	Size (L x Dia.)	Mounting Hole	1	10	100
120994	ValuePro	1.95" x .71"	.58"Dia. (Double D-style)	$.95	$.85	$.69
18703	ValuePro	2.05" x .71"	.58"Dia. x .52"Flat (D-style)	1.95	1.75	1.59
2179649	Bussman	2.64" x .79"	.505"Dia. x .473"Flat (D-style)	2.29	1.95	1.75
2215582	Bussman*	3.28" x .81"	.63"Dia. x .573" (Octagon)	5.95	5.49	4.95

*Illuminates when fuse fails

5mm x 20mm Miniature In-Line Fuse Holder

Part No.	Mfr.	AWG	Wire Color	Body Size	1	10	100
109330	ValuePro	20	Red	1.8"L	$.89	$.79	$.69

OPTIFUSE

Fuse Blocks

★ Web Code: OFB

Part No.	Mfr. Part No.	Description (Rating)	Compatible Fuses	1	10	100
2136243	BLC-20A	Single, snap-together block for multi-pole applications (125VAC, 15A) (250VAC, 10A)	1/4" x 1-1/4" fuses	$1.09	$.99	$.89
2136251	BLC-20C	Single, snap-together block for multi-pole applications (125VAC, 8A) (250VAC, 8A)	5mm x 20mm fuses	1.25	1.09	.95
2136294	BLR-I-301	1-pos. w/ snap-in mount (124VDC, 30A), cover included†	Automotive-blade fuses	3.49	3.19	2.89
2136278	BLR-I-306	6-pos. w/ snap-in mount (30A per circuit, 100A max input), cover included†	Automotive-blade fuses	15.95	13.95	12.95
2136286	BLR-I-310	10-pos. w/ snap-in mount (30A per circuit, 100A max input), cover included†	Automotive-blade fuses	21.95	19.95	17.95

† LED indicator and 1/4" quick connect terminals

2136243   2136251   2136294   2136278   2136286

Passives
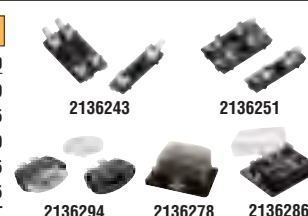
UL1007 & UL1569 Rated Stranded Hook-Up Wire

★ *Web Code: JAS*

- Applications: Interconnection circuits, wiring of computer and data processing equipment, automotive and applications
- Additional colors available online   • 300V peak   • PVC insulation   • Stranded   • Sold in 100' & 1000' rolls   • VW-1
- Temp. range: -40°C to 80°C (UL1007); -40°C to 105°C (UL1569)   • Tin-plated copper   • Additional lengths available online

Appliance Wiring Material (AWM) is a UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.

AWG	Stranding	UL1007	UL1569	Length	Black P/N	Red P/N	White P/N	Green P/N	Yellow P/N	Blue P/N	Brown P/N	Orange P/N	Violet P/N	Gray P/N	1	5
28	7 x 36	x	x	100	734611	734603	734610	734606	734605	734614	2184878	2184886	2184894	2184907	$5.95	$5.49
26	7 x 34	x	x	100	734511	734503	734510	734506	734505	734514	2184798	2184801	2184819	2184827	6.75	5.95
24	7 x 32	x	x	100	734411	734403	734410	734406	734405	734414	2171831	2171840	2171858	2171866	7.49	6.75
22	7 x 30	x		100	126085	126034	126077	310852	310878	310886	2184991	2185002	2185011	2185029	8.49	7.49
22	7 x 30	x	x	100	734311	734303	734310	734306	734305	734314	2138071	2138089	2138097	2138100	8.49	7.49
20	10 x 30	x		100	125840	125795	125831	310894	310915	310922	2185037	2185045	2185053	2185061	11.49	10.49
20	10 x 30	x	x	100	734211	734203	734210	734206	734205	734214	2171874	2171882	2171891	2171903	11.49	10.49
20	10 x 30	x	x	1000	2180050	2180113	2180092	2180076	2180068	2180084	2180105	2180121	2180130	2180148	59.95	56.95
18	16 x 30	x		100	125787	125736	125752	310932	310949	310958	2185070	2185088	2185096	2185109	14.49	12.95
18	16 x 30	x	x	100	734111	734103	734110	734106	734105	734114	2171911	2171920	2171938	2171946	14.49	12.95
16	26 x 30	x	x	100	734011	734003	734010	734006	734005	734014	2184835	2184843	2184851	2184860	16.95	15.25

Solid Hook-Up Wire – 22 AWG

★ *Web Code: PAF*

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test   • MIL-W-16878/1, type B PVC
- For use with breadboards such as the JE20 series, pg 138
- Additional colors available online

Length	Black P/N	Blue P/N	Green P/N	Red P/N	White P/N	Yellow P/N	1	5	10
25'	2152876	2152884	2152892	2152905	2153553	2152921	$3.95	$3.59	$3.29
100'	36792	36768	36822	36856	36881	36920	7.95	6.95	5.95
1000'	36805	36776	36840	36864	36899	36928	59.95	54.95	49.95

1/4-Lb. Nichrome Resistance Wire

- 60% nickel, 16% chromium, 24% iron
- Excellent resistance characteristics
- Temperature: to 1800°F (982°C)
- 24 AWG
- Nominal O.D.: 0.0201"

★ *Web Code: ZOR*

Part No.	Length (ft.)	Ω/Ft. @ 68°F	1	5
2119419	205	1.671	$14.95	$13.95

Bus Bar Hook-Up Wire

★ *Web Code: QCS*

Tinned Copper

- Solid soft drawn annealed tinned copper
- Approvals: ASTM-B-3, QQ-W-343-Type-S
- Sold in 100' reels
- Single conductor
- No insulation

Part No.	Gauge	O.D (in.)	Amps	1	5	25
2098478	24 AWG	0.020	5	$7.95	$7.25	$6.49
2098486	22 AWG	0.025	7	8.95	7.95	7.25
2098494	20 AWG	0.032	8.5	10.95	9.95	8.95
2098507	18 AWG	0.040	16	15.95	14.49	12.95
2098515	16 AWG	0.061	19	18.95	16.95	15.49

Kynar™ Wire-Wrap Wire – 30 AWG

★ *Web Code: NAC*

- Polyvinylidene fluoride insulation
- Silver plated copper (solid conductor)
- Temperature: -40°C to +125°C
- Wire wrap tools, pg 129
- Used for prototyping
- UL 1423
- Passes UL VW-1 flame test
- See pg 13 for sockets

100 Foot Reel		Pricing	
Part No.	Color	1	5
22542	Blue	$11.95	$10.95
22577	Black	11.95	10.95
22631	Red	11.95	10.95
22665	White	11.95	10.95
22606	Green	11.95	10.95
22700	Yellow	11.95	10.95

1000 Foot Reel		Pricing	
Part No.	Color	1	5
22551	Blue	$64.95	$59.95
22585	Black	69.95	64.95
22649	Red	69.95	64.95
22673	White	69.95	64.95
22614	Green	69.95	64.95
22702	Yellow	69.95	64.95

Stranded & Solid Hook-Up Wire Kits

- Solid: 105°C, tinned copper, MIL-W-16878/1, type B
- Stranded: 80°C, tin plated, UL1007
- Passes UL VW-1 flame test

★ *Web Code: PAF*

Part No.	AWG	Strands	Voltage	Wire Length	†Colors	1	5
2130917	24#	7x32	60V	0-1=32', 2-9=16'	0-9	$12.95	$11.95
2207751	24#	Solid	60V	0-1=32', 2-9=16'	0-9	12.95	11.95
2187876	24	7x32	300V	0-1=32', 2-9=16'	0-9	11.95	10.95
2206264	22*	7x30	300V	25'	0-5	17.95	15.95
2206272	22*	7x30	300V	100'	0-5	36.95	32.95
2153705	22*	Solid	600V	25'	0-5	16.95	14.95
2159189	22	Solid	600V	100'	0-5	36.95	32.95
2183752	22*	Solid	600V	100'	0-5	39.95	35.95
2206281	18*	16x30	300V	25'	0-5	24.95	21.95

†0=Black, 1=Red, 2=White, 3=Green, 4=Yellow, 5=Blue, 6=Brown, 7=Orange, 8=Violet, 9=Gray
*Includes dispenser box   # Mfr.: Velleman

1/4-Lb. Magnet Wire

★ *Web Code: MGT*

- Solid bare copper conductor
- Polyurethane/polyamide (nylon) insulation
- Solderable @ 806°F/430°C (14-24 AWG), 680°F/360°C (25-40 AWG)

Excellent Windability!

Part No.	Gauge	Nom. O.D	Length (ft.)	Temp. Range	1	5	25
2119363	30 AWG	.0109"	825	-30˚ – 155˚C ..	$9.95	$8.95	$7.95
2119355	28 AWG	.0136"	520	-30˚ – 155˚C	9.49	8.49	7.59
2119347	26 AWG	.0169"	328	-30˚ – 155˚C	8.95	7.95	7.25
2098419	24 AWG	.0213"	205	-30˚ – 130˚C	8.49	7.49	6.79
2098401	22 AWG	.0265"	129	-30˚ – 130˚C	7.95	6.95	6.25
2098398	20 AWG	.0334"	81	-30˚ – 130˚C	7.49	6.75	5.95
2098380	18 AWG	.0418"	51	-30˚ – 130˚C	7.25	6.49	5.79
2098371	16 AWG	.0524"	32	-30˚ – 130˚C	6.95	6.25	5.49

Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable
- 7 x 43 stranded
- PVC jacket
- Gray

★ *Web Code: LCG*

Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	5	10
644666	300-840SL-100	4	100	$6.95	$6.49	$5.95
644674	300-840SL-1000	4	1000	54.95	49.95	44.95
644691	300-860SL-100	6	100	9.95	8.95	7.95
644703	300-860SL-1000	6	1000	74.95	69.95	66.95

Twisted Paired Cable – 24 AWG

★ *Web Code: EBC*

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Reduced EMI
- 80°C
- 300 V

100 Foot Reel		Pricing	
Part No.	Color	1	5
173164	Black/white	$9.95	$9.49
105912	Green/white	9.95	9.49
173148	Red/white	9.95	9.49

1000 Foot Reel		Pricing	
Part No.	Color	1	5
173172	Black/white	$84.95	$79.95
105807	Green/white	79.95	74.95
173156	Red/white	99.95	94.95

Wire & Cable

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

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Order by Phone at 1-800-831-4242 or Online at www.Jameco.com   43

Wire & Cable

BELDEN | JAMECO ValuePro — Coaxial Cable

★ Web Code: CLC

Common Coax Cables: RG-#/U (RG = Radio Grade; U = Universal) | RG-58: Radio communication, amateur radio, 50Ω
RG-59: Baseband video in CCTV, low shielding, 75Ω | RG-174: Wi-Fi pigtails, more flexible but higher loss than RG-58, 50Ω

• Color: black   • PVC jacket   • A = Polyethylene insulated

Part No.	⊛Mfr.	Product No.	Fig.	Length	AWG	Type	Nom. Imp (Ω)	Insul.	Bare Copper	Braid Shield	Pricing 1	Pricing 5
2124146	JVP	4449-100	1	100' Reel	19 Stranded	RG58A/U	50	A	0.036"	95	$34.95	$32.95
644754	JVP	RG58/U-100	2	100' Reel	20 Solid	RG58/U	50	A	0.015"	38	21.95	20.95
232961	BDN	8281 010100	4	100' Reel	20 Solid	RG59/U	75	A	0.031"	98	59.95	54.95
232653	BDN	9259 010100	3	100' Reel	22 Stranded	RG59/U	75	A	0.030"	95	41.95	39.95
644818	JVP	RG174/U-100	1	100' Reel	26 Stranded	RG174/U	50	A	0.020"	98	21.95	19.95
644826	JVP	RG174/U-1000	1	1000' Reel	26 Stranded	RG174/U	50	A	0.020"	98	179.95	169.95

Fig. 1
Fig. 2
Fig. 3
Fig. 4

BELDEN | JAMECO ValuePro — Multi-Conductor Cable

★ Web Code: MCC

Part No.	⊛Mfr.	Product No.	Fig.	AWG (stranded)	# of Cond.	Length	Jacket	Wire Color	Insul.	Nom. O.D.	Pricing 1	Pricing 5
732996	BDN	8442 060100	1	22[1]	2	100' Reel	Chrome/PVC	Black, Red	A	0.170"	$36.95	$34.95
733008	BDN	8442 060500	1	22[1]	2	500' Reel	Chrome/PVC	Black, Red	A	0.170"	149.95	134.95
734054	BDN	8442 060U1000	1	22[1]	2	1000' Unreel	Chrome/PVC	Black, Red	A	0.170"	279.95	269.95
733024	BDN	8443 060100	2	22[1]	3	100' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	44.95	39.95
733032	BDN	8443 060500	2	22[1]	3	500' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	219.95	209.95
733059	BDN	8444 060100	3	22[1]	4	100' Reel	Chrome/PVC	Black, Red, White, Green	A	0.185"	53.95	49.95
733067	BDN	8444 060500	3	22[1]	4	500' Reel	Chrome/PVC	Black, Red, White, Green	A	0.185"	264.95	249.95
2119494	JVP	5411-100	4	22[1]	5	100' Cable	Gray/PVC	Blk, Red, Wh, Grn, Brn	A	0.190"	44.95	42.95
733083	BDN	8445 060100	4	22[1]	5	100' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	89.95	85.95
2119558	JVP	5578-100	5	18/20 drain wire[3]	3	100' Reel	Chrome/PVC	Black, Red, White	B	0.230"	49.95	44.95
733201	BDN	8770 060100	5	18/20 drain wire[2]	3	100' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	89.95	79.95
2119531	JVP	5576-100	5	22/22 drain wire[3]	3	100' Reel	Gray/PVC	Black, Red, White	B	0.190"	29.95	28.49
644383	JVP	SC4-25	6	24 drain wire[3]	4	25' Reel	Gray/PVC	Multi-Colored	A	0.200"	7.95	7.49
644391	JVP	SC4-100	6	24 drain wire[3]	4	100' Reel	Gray/PVC	Multi-Colored	A	0.200"	29.95	26.95
644404	JVP	SC4-1000	6	24 drain wire[3]	4	1000' Reel	Gray/PVC	Multi-Colored	A	0.200"	219.95	199.95
644412	JVP	SC-925	6	24 drain wire[3]	9	25' Unreel	Gray/PVC	Multi-Colored	A	0.230"	15.95	14.35
644421	JVP	SC9-100	6	24 drain wire[3]	9	100' Reel	Gray/PVC	Multi-Colored	A	0.230"	44.95	39.95
644439	JVP	SC9-1000	6	24 drain wire[3]	9	1000' Reel	Gray/PVC	Multi-Colored	A	0.230"	349.95	329.95
644447	JVP	SC15-25	6	24 drain wire[3]	15	25' Unreel	Gray/PVC	Multi-Colored	A	0.280"	24.95	22.95
644455	JVP	SC15-100	6	24 drain wire[3]	15	100' Reel	Gray/PVC	Multi-Colored	A	0.280"	53.95	49.95
644463	JVP	SC15-1000	6	24 drain wire[3]	15	1000' Reel	Gray/PVC	Multi-Colored	A	0.280"	399.95	379.95
644471	JVP	SC25-25	6	24 drain wire[3]	25	25' Unreel	Gray/PVC	Multi-Colored	A	0.370"	29.95	26.95
644480	JVP	SC25-100	6	24 drain wire[3]	25	100' Reel	Gray/PVC	Multi-Colored	A	0.370"	94.95	89.95
2006377	JVP	SC25-500	6	24 drain wire[3]	25	500' Unreel	Gray/PVC	Multi-Colored	A	0.370"	429.95	399.95
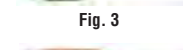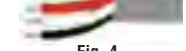
Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6

1 = Unshielded
2 = Overall Beldfoil Shield
3 = 100 Aluminum/ Mylar Shield 100%
A = PVC   B = Polyethylene
Blk = Black   Brn = Brown
Grn = Green   Wh = White

BELDEN | JAMECO ValuePro — Paired Cable

★ Web Code: HCS

Part No.	⊛Mfr.	Product No.	Fig.	AWG/Drain Wire	# of Pairs	Length	Jacket	Wire Color	Insul.	Pricing 1	Pricing 5
2119515	JVP	5574-100	1	18 / 24	1	100' Reel	Chrome/PVC	Black/White	A	$41.95	$37.95
733112	BDN	8451 010100	2	22 / 22	1	100' Reel	Black/PVC	Black/Red	B	27.95	25.95
734063	BDN	8451 010U500	2	22 / 22	1	500' Unreel	Black/PVC	Black/Red	B	129.95	119.95
734180	BDN	8723 060100	3	22 / 24	2	100' Reel	Chrome/PVC	Black/Red, Green/White	B	54.95	49.95
734184	BDN	8723 060U500	3	22 / 24	2	500' Unreel	Chrome/PVC	Black/Red, Green/White	B	249.95	224.95

Fig. 1
Fig. 2
Fig. 3

A = Polyethylene
B = Polypropylene

JAMECO ValuePro — 2-Conductor Power/Speaker Cable

★ Web Code: VAL

• Black wire has white polarity stripe
• Temp. rating: 20°C to 60°C
• Stranded copper wire (7 x 32)
• Operating voltage: 300V   • 24 AWG
• White wire has textured jacket for polarity

Part No.	Cross Ref. No.	Color	Length	1	5	10
100280	CAR45B-100	Black	100'	$7.95	$7.49	$6.95
100299	CAR45B-1K	Black	1000'	59.95	54.95	49.95
2208391	CAR45W-1K	White	1000'	59.95	54.95	49.95

Zip Automotive Speaker Cable

• Good for automotive or language labs
• High definition, low loss
• Red/black color coded PVC
• Voltage: 300VAC, 60VDC

JAMECO ValuePro

2173845

Part No.	AWG	Strands	Length	1	5
2173845	18	16 x 30	100' ...	$29.95	$26.95
2206299	18	16 x 30	25'	9.95	8.95
2206301	16	19 x 29	25'	12.95	11.49

⊛ BDN = Belden | JVP = Jameco ValuePro

TOP SELLING SPEAKERS

135812   2179681

Part No.	Description	Price
34025	70dB square flat element speaker, 8Ω ..	$2.75
135812	82dB alnico oval speaker, 8Ω	4.95
2158215	84dB micro round speaker, 8Ω	.99
2179681	85dB square ferrite speaker, 16Ω	1.95
2205561	93dB round ferrite speaker, 8Ω	1.49

28 AWG (7 x 36) Gray and Multicolor Flat Ribbon Cable

See page 57 for IDC Connectors

Gray Cable
- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation
- Center spacing: 0.05"

★**Web Code: WBX**

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
643794	171-10-10	10	10'	$3.49	$3.25	$2.95
643807	171-10-25	10	25'	7.49	6.75	5.95
643815	171-10-100	10	100' reel	21.95	19.95	17.95
643831	171-16-10	16	10'	4.95	4.49	3.95
643840	171-16-25	16	25'	11.95	10.95	9.95
643858	171-16-100	16	100' reel	34.95	31.49	27.95
643874	171-20-10	20	10'	5.95	5.49	4.95
643891	171-20-100	20	100' reel	44.95	39.95	35.95
643911	171-25-10	25	10'	6.95	6.49	5.95
643938	171-25-100	25	100' reel	49.95	46.95	43.95
643962	171-26-10	26	10'	8.49	7.49	6.75
643989	171-26-100	26	100' reel	59.95	53.95	48.95
644033	171-34-10	34	10'	9.95	8.95	7.95
644050	171-34-100	34	100' reel	64.95	59.95	53.95
644076	171-37-10	37	10'	11.95	10.95	9.95
644092	171-37-100	37	100 reel	74.95	69.95	63.95
644121	171-40-25	40	25'	29.95	26.95	23.95
644130	171-40-100	40	100' reel	79.95	69.95	62.95
644164	171-50-25	50	25'	34.95	31.49	28.49
644172	171-50-100	50	100' reel	89.95	79.95	74.95
644199	171-60-10	60	10'	12.95	11.49	9.95
644201	171-60-25	60	25'	24.95	22.49	19.95
644210	171-60-100	60	100' reel	89.95	84.95	79.95

Multicolor Cable
- Standard 10-color repeat sequence
- Voltage rating: 300V
- Center spacing: 0.05"
- Stranded copper wire
- Temperature rating: -20°C to +80°C

★**Web Code: WCF**

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
639672	28RC10-10	10	10'	$5.95	$5.49	$4.95
643508	28RC10-25	10	25'	12.95	11.49	10.49
643516	28RC10-100	10	100' reel	39.95	35.95	32.49
643532	28RC16-10	16	10'	7.95	6.95	6.25
643541	28RC16-25	16	25'	19.95	17.95	15.95
643559	28RC16-100	16	100' reel	59.95	53.95	48.95
643575	28RC20-10	20	10'	10.95	9.95	8.95
643583	28RC20-25	20	25'	23.95	21.95	19.95
643591	28RC20-100	20	100' reel	74.95	67.49	59.95
643639	28RC25-100	25	100' reel	89.95	79.95	69.95
643698	28RC40-10	40	10'	26.95	23.95	21.95
643719	28RC40-100	40	100' reel	99.95	95.95	89.95
643735	28RC50-10	50	10'	29.95	26.95	23.95
643743	28RC50-25	50	25'	44.95	42.95	39.95
643751	28RC50-100	50	100' reel	149.95	134.95	119.95

10-Conductor Flat Ribbon Cable – Gray

.100" (2.54mm) — 24AWG
- Capacitance: 31pF/m
- Insulation resis.: 100MΩ
- Temperature rating: 105°C • 10' roll
- Insulation material: 7mm polyvinyl chloride (PVC) gray

★**Web Code: WBX**

Part No.	Cross Ref. No.	Conductor	Length	1	5	25
363813	H24G-10-10	10	10'	$8.95	$7.95	$6.95

Category 5e Network Cable

★**Web Code: KCG**
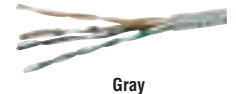
Blue **Gray**

24 AWG UTP Category 5e Enhanced - 350MHz (Non-Plenum)

Part No.	Cross Ref. No.	Length	Color	Description	1	5
645722	10X5-704TH-100VP	100'	Blue	Solid	$16.95	$15.95
645731	10X5-704TH-1000VP	1000'	Blue	Solid	129.95	119.95
644615	10X5-804TH-100	100'	Blue	Stranded	16.95	15.95
644623	10X5-804TH-1000	1000'	Blue	Stranded	129.95	119.95
644594	10X5-801TH-1000	1000'	Gray	Stranded	139.95	129.95

Network Cable Assemblies

★**Web Code: CAE**

Category 5e
- 8P8C • 4 pair • Unshielded Twisted Pair (UTP) • 350 MHz • "Snagless" boot
- 24 AWG (7 x 43) stranded • T568B color coded for easy wire tracing

Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	$1.75	$1.59	$1.39
201777	3 ft.	Red	1.59	1.45	1.29
201785	7 ft.	Red	2.49	2.25	1.95
201697	3 ft.	Black	1.75	1.59	1.39
201700	7 ft.	Black	2.75	2.49	2.25
201718	15 ft.	Black	3.95	3.55	2.95
201726	25 ft.	Black	6.49	5.95	5.49

Part No.	Length	Color	1	10	100
201734	3 ft.	Blue	$1.75	$1.59	$1.39
1945381	5 ft.	Blue	1.95	1.75	1.65
2138708	7 ft.*	Blue	1.95	1.75	1.49
201742	7 ft.	Blue	2.75	2.49	2.25
201751	15 ft.	Blue	3.95	3.55	2.95
201814	3 ft.	Yellow	1.75	1.59	1.39
201822	7 ft.	Yellow	2.49	2.25	1.95

*Without "Snagless" boot

Category 6
- Gold over nickel contacts • With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable • 550 MHz
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6

★**Web Code: BBK**

Part No.	Length	Color	1	10	100
219707	3 ft.	Gray	$2.25	$1.95	$1.75
219854	3 ft.	Blue	1.75	1.59	1.39
219871	14 ft.	Blue	5.49	4.95	4.49

Part No.	Length	Color	1	10	100
219918	7 ft.	Red	$3.25	$2.95	$2.49
219791	50 ft.	Black	14.95	13.49	11.95

Cat 5e Network Crossover Cable

★**Web Code: CAE**

Category 5e – 350MHz
- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP

Part No.	Length	Color	1	10	100
302041	7 ft.	Gray	$3.75	$3.35	$2.95
169261	10 ft.	Gray	4.95	4.49	3.95

5-Port Industrial Ethernet Switch

- Auto MDI/MDI-X crossover for plug-and-play
- Supports 10/100Mbps auto negotiation
- IEEE 802.3, 802.3u, 802.3x
- LED indicators for power, 10/100M, Link/Act
- DIN rail mountable

★**Web Code: CAK**

Part No.	Mfr. Part No.	1	5
2129019	NS-205	$98.95	$93.95

Wire & Cable

Wire & Cable

JAMECO ValuePro — Modular Plugs

★ **Web Code: FBB**

P = No. of positions
C = No. of contacts

103491 | 79290 | 79273 | 79281 | 119343 | 116611

• Unshield except P/N 116602 & 116611

✳ **Order in multiples of 10**

Part No.	Mfr.	Description	Size (L" x W" x H")	UL	1	10	100	500
103491	ValuePro	4P4C (N/A) for flat or oval handset wire	.49 x .30 x .26	None	✳	$.19	$.15	$.12
525085	AMP	4P4C (N/A) for flat oval stranded wire	.53 x .46 x .26	None	.35	.25	.19	.18
79290	ValuePro	6P4C (RJ14) for round stranded wire	.49 x .38 x .26	UL94V-0	✳	.19	.15	.13
79273	ValuePro	6P6C (RJ12) for flat stranded wire	.49 x .38 x .26	None	.29	.25	.22	.19
79281	ValuePro	8P8C (RJ45) for flat stranded wire	.85 x .46 x .31	None	.45	.39	.35	.29
119343	ValuePro	8P8C (RJ45) for round solid wire	.85 x .46 x .31	None	.45	.39	.35	.29
524525	AMP	8P8C (RJ45) for round stranded wire	.84 x .46 x .31	UL94V-2	.79	.75	.69	.65
116602	ValuePro	8P8C (RJ45) for round stranded wire*	.85 x .46 x .31	UL94V-2	.95	.89	.79	.69
116611	ValuePro	8P8C (RJ45) for round stranded wire*	.87 x .46 x .33	UL94V-0	1.09	.99	.89	.79
180646	ValuePro	10P10C (RJ50) for round stranded wire	.85 x .46 x .31	None	.49	.45	.39	.35

*Shielded

AMP / JAMECO ValuePro — Modular Jacks

NEW — MARKED IN PINK

★ **Web Code: NEL**

115128 | 2211151 | 151766 | 2209692 | 124039 | 115837 | 524488 | 524461 | 2210183 | 2178241

Part No.	⊛Mfr.	Description	Panel Mnt.	Size (L" x W" x H")	1	10	100
2178224	ADM	4P4C (N/A) side entry, std. latch, no panel stops, for handset	No	.51 x .39 x .57	$.39	$.35	$.29
115128	JVP	4P4C (N/A) side entry, std. latch, no panel stops, for handset	No	.51 x .40 x .57	.45	.39	.35
2211151	JVP	4P4C (N/A) top entry, std. latch, no panel stops, for handset, 14" leads	No	.54 x .59 x .72	.79	.69	.59
151766	ADM	6P4C (RJ14) side entry, standard latch, panel stops	Yes	.80 x .52 x .59	.65	.59	.55
2209692	ADM	6P4C (RJ14) side entry, center latch, panel stops	Yes	.54 x .59 x .72	1.25	1.09	.99
2209721	ADM	6P6C (RJ25) top entry, ceneter latch, panel stops	Yes	.63 x .63 x .65	.49	.39	.29
124039	JVP	6P6C (RJ25) top entry, standard latch, panel stops, 6" leads	Yes	.54 x .59 x .72	1.25	1.09	.99
524277	AMP	6P6C (RJ25) top entry, standard latch, panel stops	Yes	.53 x .64 x .63	.95	.89	.79
2178216	ADM	6P6C (RJ25) side entry, standard latch, panel stops	Yes	.59 x .56 x .57	.55	.49	.45
115837	JVP	6P6C (RJ25) side entry, standard latch, panel stops	Yes	.51 x .48 x .57	.85	.75	.65
524488	AMP	8P8C (RJ45) side entry, standard latch, no panel stops	Yes	.66 x .62 x .63	.95	.85	.75
115844	ADM	8P8C (RJ45) side entry, standard latch, no panel stops	No	.52 x .62 x .58	.79	.69	.59
524461	AMP	8P8C (RJ45) side entry, standard latch, no panel stops, LP	Yes	.72 x .61 x .50	.79	.75	.69
2078258	JVP	8P8C (RJ45) side entry, standard latch, no panel stops, LP	No	.71 x .60 x .46	.49	.39	.29
203449	JVP	8P8C (RJ45) side entry, standard latch, no panel stops, shielded	No	.84 x .63 x .53	.89	.79	.75
2209705	ADM	8P8C (RJ45) side entry, center latch, no panel stops	No	.84 x .63 x .54	.89	.79	.75
2210183	ADM	8P8C (RJ45) side entry, standard latch, shield	Yes	.84 x .63 x .52	.89	.79	.75
2209713	ADM	8P8C (RJ45) side entry, center latch, panel stops	Yes	.70 x .63 x .50	.69	.59	.49
2178241	ADM	10P10C (RJ50) side entry, std. latch, no panel stops, shielded	No	.74 x .63 x .47	.29	.27	.25

JAMECO ValuePro — RS-232-to-Registered Modular Datacom Adapters

★ **Web Code: RDR**

Simplify networking applications when changing your RS-232 port to an RJ11, RJ12 or RJ45 modular jack.

Includes: All necessary hardware and wiring

66181 | 66237

Part No.	⊛Mfr.	Description	1	10	100
66181	JVP	DB9 M to RJ12 (6P6C)	$1.75	$1.49	$1.35
66191	JVP	DB9 M to RJ45 (8P8C)	2.25	1.95	1.75
614977	GCE	DB9 M to RJ45 (8P8C)	2.49	2.25	1.95
2129596	SIIG	DB9 M to RJ45 (8P8C)†	5.95	5.49	4.95
614985	GCE	DB9 F to RJ11 (6P4C)	1.95	1.75	1.49
114738	JVP	DB9 F to RJ11 (6P4C)	1.95	1.75	1.59
66203	JVP	DB9 F to RJ12 (6P6C)	2.49	2.25	1.95

Part No.	⊛Mfr.	Description	1	10	100
66212	JVP	DB9 F to RJ45 (8P8C)	$2.75	$2.49	$2.25
615005	GCE	DB9 F to RJ45 (8P8C)	2.75	2.49	2.25
66229	JVP	DB25 M to RJ12 (6P6C)	2.25	1.95	1.75
66237	JVP	DB25 M to RJ45 (8P8C)	1.85	1.69	1.49
2179420	SPC	DB25 M to RJ45 (8P8C)*	1.49	1.25	1.09
66254	JVP	DB25 F to RJ45 (8P8C)	1.85	1.69	1.49

*Black   †1 ft. cable

JAMECO ValuePro — Modular Telephone/Printer Sharing Cable (Gray)

• RJ11 – 4P4C for telephone or network
• RJ11 – 6P6C for telephone or printer sharing
• RJ45 – 8P8C for telephone or modem dial-up use
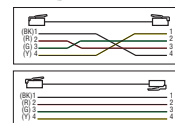
Style 1 – Reverse wiring for telephone systems
Style 2 – Straight wiring for networking/printer sharing

★ **Web Code: EBF**

Part No.	Conn. Style	Type	Length	Pricing 1	10	100
2211143	1	RJ11-4P4C	7ft.	$1.29	$1.15	$.95
2125851	1	RJ11-6P4C	6ft.	.25	.19	.15
196227	1	RJ11-6P4C	7ft.	1.75	1.59	1.39
115554	2	RJ11-6P4C	7ft.	1.75	1.59	1.39
115588	1	RJ12-6P6C	7ft.	1.49	1.35	1.19
115617	2	RJ12-6P6C	7ft.	1.95	1.75	1.59
115677	2	RJ45-8P8C	7ft.	1.49	1.35	1.19
201232	2	RJ11-6P4C†	35ft.	.99	.85	.69

† Beige

JAMECO ValuePro — Modular Couplers
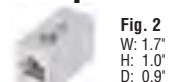
Fig. 1 — W: 1.5" H: 0.9" D: 0.7"
Fig. 2 — W: 1.7" H: 1.0" D: 0.9"
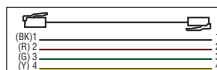
★ **Web Code: XAH**

Straight wiring for networking/printer sharing

Part No.	Description	Fig.	Pricing 1	10	100
135087	6P6C modular coupler, RJ12	1	$1.09	$.99	$.89
135079	8P8C modular coupler, (for CAT5) RJ45	1	1.39	1.25	1.15
2217043	8P8C modular coupler, (for CAT5e) RJ45	2	2.95	2.65	2.39

AMP — 8P8C In-Line Couplers

• Panel mount thickness: 0.062" nominal
• Housing: black polyphenylene oxide
• Terminals: 0.018" diameter phosphor bronze with 50µ" gold over nickel
• Snaps into 0.595" x 0.765" rectangular wall plate cut-outs

Part No.	⊛Mfr.	Mfr. Part No.	1	10	100
524445	AMP	555052-1	$5.95	$5.49	$4.95
2160649	JVP	MCJ-88	2.95	2.59	2.35

JAMECO ValuePro — RJ45-Plug Color Caps (Boots)

• Round strain relief
• Order in multiples of 10

★ **Web Code: JBG**

204410

Part No.	Color	10	100	500	1000
204410	Black	$.19	$.17	$.15	$.12
204353	Gray	.19	.17	.15	.12
204362	Blue	.19	.17	.15	.12

MinnowBoard MAX

beagleboard.org

• Dual core Atom E3825, 1.33GHz
• 8MB SPI flash
• I²C and SPI Bus
• 64-Bit, 2GB DDR3, HDMI, USD, SATA2
• (8) buffered GPIO pin
• 2.9" x 3.9"

Part No.	Price
2217271	$199.95
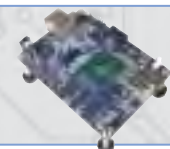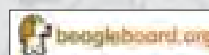
⊛ ADM = Adam Tech | AMP = AMP | GCE = GC Electronics | JVP = Jameco ValuePro | KYC = Kycon | SPC = SPC Technology

STEREN Modular Jack Boxes

W: 2.0"
H: 2.2"
D: 0.9"

Part No.	Description	Pricing		
		1	10	100
71984	6P6C adhesive jack RJ12 (beige)	$1.19	$1.05	$.89
71651	8P8C adhesive jack RJ45 (beige)	1.29	1.15	.99

JAMECO ValuePro Keystone-Type RJ45 Jacks

Modular Punchdown Type

- CAT 5e classification
- Punchdown type wiring connections with color coding
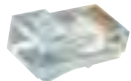- Size: 0.57"W x 1.23"D x 0.63"H

212944

Part No.	Description	Color	1	10	100
212951	8P8C (RJ45)	Blue	$2.95	$2.65	$2.39
212944	8P8C (RJ45)	White	2.49	2.25	1.95

EZ-RJ45 Category 5 Modular Plug

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

Part No.	Mfr. Part No.	Description	1	10	100
158115	300568EZ	8P8C, CAT5	$1.75	$1.59	$1.45

Network Cable, see page 45

Professional Modular Connector Crimping Tool

- 6mm and 12mm stripping guide
- Spring return action
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C and 4P4C
- Insulated handles
- Size: 8.2"L • Weight: 1.2 lbs.
- 181148: Comes with a screwdriver

181148

Part No.	Mfr. Part No.	1	5	25
181148	HT200A	$54.95	$49.95	$44.95
159312	HT-568R-R	19.95	17.95	16.49

ARDUINO ETHERNET SHIELD Rev. 3

Now you can connect your Arduino Uno to your network with an Ethernet cable (sold separately) and control your world through the Internet.

- 10/100 Mbps
- Uses 5V supply from Uno
- W5100 controller with 16K buffer
- Connect with Arduino on SPI port
- PoE ready (PoE module sold separately)

Part No.	Mfr. Part No.	1	5
2152374	A000072	$35.95	$34.95

JAMECO ValuePro 3" to 13" Nylon Cable Ties

Standard

- Cable ties made from UL approved Nylon 66
- Temp. range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: natural

70561

Order in multiples of 100

Part No.	Size (L" x W")	Tensile Strength	100	1000
70561	3.0 x 0.10	18 lbs.	$.03	$.02
126544	4.0 x 0.10	18 lbs.	.04	.03
139150	8.0 x 0.10	18 lbs.	.05	.04
182669	8.0 x 0.13	18 lbs.	.06	.05
182685	8.0 x 0.18	18 lbs.	.07	.06
70907	6.0 x 0.14	40 lbs.	.08	.06
190756	10.0 x 0.14	40 lbs.	.09	.07
190772	11.0 x 0.19	40 lbs.	.10	.08
190764	13.0 x 0.14	40 lbs.	.11	.09

Weather Resistant (black)

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- UL94V-2

104142

UV Resistant

Order in multiples of 100

Part No.	Size (L" x W")	Tensile Strength	100	1000
139125	3.0 x 0.10	18 lbs.	$.04	$.03
104142	4.0 x 0.10	18 lbs.	.05	.03
104134	6.0 x 0.10	40 lbs.	.08	.05
190782	8.0 x 0.13	40 lbs.	.11	.08
190800	10.0 x 0.14	40 lbs.	.18	.13
190802	13.0 x 0.14	40 lbs.	.19	.17

Cable Tie Assortment Kits

- Tensile strength: 18-50 lbs.
- UL94V-2

145701: 4"L x 0.1"W
150412: 500 pcs. (4"L x 0.1"W); 300 pcs. (8"L x 0.13"W); 50 pcs. (11"L x 0.18"W)

145701

Part No.	# of Pieces	# of Colors	1	5	25
145701	1000	10	$14.95	$13.49	$11.95
150412	850	5	22.95	20.95	18.95

JAMECO ValuePro Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2
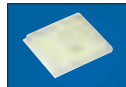
Fig. 1 | **Fig. 2** | **Fig. 3** | **Fig. 4** | **Fig. 5** | **Fig. 6** | **Fig. 7**

Order in multiples of 10

Part No.	Cross Ref. No.	Fig.	Description	10	100	1000
182942	0505HC-101S	1	4-way cable tie mount, self-adhesive, use w/ 0.18"W max. ties, .75"sq.	$.15	$.13	$.12
171214	HC-100	1	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.5" square	.16	.14	.13
71408	HC-101	1	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.9" square	.19	.17	.15
71395	HC-102	1	4-way cable tie mount, self-adhesive, use w/ 0.2"W max., 1.1" square	.25	.23	.19
71386	HC-103	1	2-way cable tie mount, self-adhesive, use w/ 0.2"W max., 1.1" square	.33	.29	.27
70595	HC-0	2	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.19	.17	.15
173761	HC-1	3	Cable tie mount, saddle type, 0.14" screw hole, 0.6"L x 0.4"W, use w/ 0.2"W max. ties ..	.12	.11	.10
182301	0510HC-2	3	Cable tie mount, saddle type, 0.14" screw hole, 0.9"L x 0.6"W, use w/ 0.35"W max. ties ...	.17	.15	.14
182376	0519ATC-22	4	Ladder style releaseable cable tie w/ 2.8" strap, self-adhesive, 1.2"L x 0.85"W ...	.15	.12	.09
182334	0520FC-1	5	Cable tie mount, self-adhesive, 0.5"L x 0.4"W, use w/ 0.3"W max. ties......	.21	.19	.16
173729	UC0.5	6	Cable clamp for 3/16" cable	.13	.11	.09
173737	UC1	6	Cable clamp for 1/4" cable	.13	.11	.09
173753	UC716	6	Cable clamp for 7/16" cable	.15	.13	.11
71062	MCV-100R	7	Cable ID tie (4"L x 0.1"W) with tab (.98"W x .31"H)	.19	.17	.15

3M Wire Marker Tape Dispenser

Dispenser with 10 refillable compartments for marking wire with numbers 0 to 9.

- Self-adhesive tapes
- Size: (tape) 96"L x 0.25"W
- 1 roll each numbered 0 to 9

Part No.	Mfr. Part No.	1	5
159231	STD-0-9	$46.95	$42.95

JAMECO BenchPro Universal Cable Tie Tool

- 0.1" – 0.19" width cable ties
- Tension adjustable
- Spring return action • Metal

Part No.	Cross Ref. No.	1	5	10
182298	0302TG-7	$19.95	$18.49	$16.95

Round-Type Strain Relief Bushings

- UL approved nylon 66, 94V-2
- Used extensively for protecting cords and to prolong cord life
- Order in multiples of 10

182369

Part No.	Cable Type	Length (in.)	10	100	1000
182351	SVI/SVT, 18 AWG	.43	$.14	$.12	$.10
182369	SJ/SJT, 16 AWG	.58	.19	.13	.10

17" Self-Grip/Wrap Velcro Straps

- Wrap around anything and sticks to itself for fast, easy bundling
- Bundle cords, cables, wires, pipes, tubing and trees (landscaping)
- Grip on one side, loop on back
- Eliminates plastic tie wraps and hardware • Reusable
- Size: 17"L x 1/2"W (cut to your length)
- Color: black
- 12 pieces in pack

Part No.	Description	1	10	20
2125325	Self-grip/wrap velcro	$5.95	$5.39	$4.95

Wire & Cable

★For additional products, availability and specifications visit *Jameco.com* and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com   **47**

3 LEVELS OF SAVINGS

| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Wire & Cable

FLEXO® Braided Sleeve

★ Web Code: ECQ

- Color: black
- Length: 25 feet
- Cut and abrasion resistant
- Maintains properties across wide temperature range
- UV resistant

Flexo® Clean-Cut Braided

- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

Part No.	Mfr. Part No.	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
162157	CCP0.25BK25	5/32 – 7/16	0.250	0.440	$15.95	$14.49
162165	CCP0.50BK25	1/4 – 3/4	0.500	0.750	17.95	15.95

Flexo® Pet Braided

- Braided from 10 mil polyethylene terepthalate monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

Part No.	Mfr. Part No.	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
693679	PTN0.25BK25	1/8 – 7/16	0.250	0.440	$8.95	$7.95
695383	PTN0.50BK25	1/4 – 3/4	0.500	0.550	14.95	12.95

47-Piece Wire Protecting Sleeve Kit

- VW-1 and 94V-2 flame resistance
- Operating temperature: -58°F to 257°F

Includes: Fiber-braided sleeves, heat shrink tubing, 30 black cable ties and 8 cable tie sockets

Part No.	Braided Sleeve Dia. (mm)	Heat Shrink Tubing Dia. x L (mm)	Ties (L" x W")	1	5
2204429	5-9, 9-10, 7-11 (1m ea.)	9 x 100, 12 x 100 (3 ea.)	3.9 x 0.1	$12.95	$11.95

Flat & Tubular Tinned Copper Braid

These braids are used for shielding cables and ground straps, and as a protective braid covering for hoses and tubes.

- Woven wire construction
- 100 ft. spools
- 95% minimum shield coverage
- QQ-W-343 & ASTM B-33 compliant

2124189   **2124154/2124162**

Part No.	Description	1	5	25
2124189	1/4" nominal width x .03" flat, 168 x 36 strand, approx. 14 AWG	$49.95	$47.49	$44.95
2124154	Tubular 1/4" nominal ID, 384 x 36 strand, approx. 10 AWG	79.95	74.95	69.95
2124162	Tubular 3/8" nominal ID, 384 x 36 strand, approx. 10 AWG	89.95	79.95	74.95

Heat Shrink Tubing Kits

3M   Jameco   ValuePro   RC Logger

2:1 Shrink Ratio   ★ Web Code: HST

A selection of heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C).

2095963		2095971		2095947		2204411		285481		645976	
Size	Pcs.	Size	Pcs.	Size	Pcs.	Size	Pcs.	Size	Pcs.	Size	Pcs.
1/16"	56	1/8"	12	1/16"	56	3/64"	130	3/16"	30	3/32"	35
3/32"	35	1/4"	10	3/32"	35	1/16"	130	1/4"	28	1/8"	28
1/8"	28	3/8"	6	1/8"	28	3/32"	125	3/8"	20	3/16"	21
3/16"	18	1/2"	4	3/16"	18	1/8"	85	1/2"	14	1/4"	21
1/4"	9	3/4"	3	1/4"	9	3/16"	85	3/4"	6	3/8"	14
3/8"	8	1"	2	3/8"	8	1/4"	85	1"	4	1/2"	14

2095971   **2204411**   **645976**

Part No.	Mfr.	Description	Pieces	Length	1	5
2095963	ValuePro	Black, assorted diameters	154	4"	$19.95	$17.95
2095971	ValuePro	Black, dual wall, moisture resistant	37	4"	22.95	19.95
2095947	ValuePro	Black/red/white/yellow/blue/green/clear	154	4"	22.95	19.95
2204411	RC Logger	Black/red/white/yellow/blue	664	† see below	29.95	27.95
285481	3M	Black, assorted diameters	102	6"	69.95	64.95
645976	3M	Black/red/white/yellow/blue/green/clear	133	6"	69.95	64.95

† 40/125/250mm

Heat Guns and Strippers

NTE   MASTER   Weller   Jameco BenchPro   ★ Web Code: QAJ

191943:
- 3-pos. switch (hot/off/cool)

2117413:
- Fast and easy use
- Built-in bracket
- Weight: 1.1 lbs.

2076501:
- No-slip adjustable stand
- Weight: 4.0 lbs.

2076501   **191943**   **2007062**

Part No.	Mfr.	Product No.	Description	Watts	Heat Setting (°F)	Temp. (°F max.)	1	5
191943	Weller	6996C	Industrial heat gun	250	750-800	800	$142.95	$134.95
2117413	NTE	HG300-D	Mini heat gun	350	482-662	662	21.95	20.95
254925	BenchPro	1001A	Economical heat gun	1200	600 & 1000	1000	44.95	39.95
76865	BenchPro	G1HG1	Heat gun/stripper	1500	600 & 1100	1100	49.95	44.95
2076501	Master	HG-501A	Industrial heat gun (23 CFM)	1680	750	750	149.95	139.95
2007062	BenchPro	1004	Accessory kit for 254925	—	—	—	11.95	10.95

Polyolefin Round Heat Shrink Tubing

alpha

FIT221/FIT221B Series

Insulation from environment and resistance from water, fungus and UV light. Use for insulation and repair, wire and cable harnessing / bundling, cable and connector protection, and wire and tubing splicing and connecting.

419119

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: $10^{14}\Omega$-cm

Clear (4-foot pieces)

★ Web Code: HST

Part No.	Mfr. Part No.	Before/After ID (in.)	1	10	100
419119	FIT221-3/64	.046/.023	$.95	$.89	$.75
419135	FIT221-1/16	.063/.031	1.19	1.09	.99
419231	FIT221-3/8	.375/.187	2.75	2.49	2.25
419258	FIT221-1/2	.500/.250	2.95	2.75	2.49
419274	FIT221-3/4	.750/.375	3.49	2.95	2.65
2113682	TT-72801	1.00/.500	3.95	3.55	3.19

Black (4-foot pieces)

Part No.	Mfr. Part No.	Before/After ID (in.)	1	10	100
419101	FIT221B-3/64	.046/.023	$1.09	$.99	$.89
419127	FIT221B-1/16	.063/.031	1.19	1.09	.99
419143	FIT221B-3/32	.093/.046	1.29	1.15	.99
419160	FIT221B-1/8	.125/.062	1.39	1.25	1.09
419186	FIT221B-3/16	.187/.093	1.69	1.49	1.35
419207	FIT221B-1/4	.250/.125	1.89	1.69	1.49
419223	FIT221B-3/8	.375/.187	2.25	1.95	1.75
419240	FIT221B-1/2	.500/.250	2.69	2.39	2.09
2202319	FIT221B-1/2-150*	.500/.250	79.95	74.95	59.95
2192721	ESP200-3/4	.750/.375	3.95	3.59	3.25

*150 ft. roll

Flat Black Heat Shrink Tubing

Jameco   ValuePro   Raychem   KO-RALLY

- 2:1 uniform shrink ratio
- Shrink temp.: 125°C
- VW-1 rated
- UL/CSA

Polyolefin Tubing

- Only sold in 10' and 100' lengths

Part No.	Dia. Before (mm)	Length (ft.)	1	10
644834	0.12" (3)	10	$2.49	$2.25
644851	0.12" (3)	100	15.95	13.95
644869	0.16" (4)	10	2.75	2.49
644877	0.16" (4)	100	17.95	15.95
644906	0.20" (5)	10	3.25	2.95
644914	0.20" (5)	100	21.95	19.95
644931	0.24" (6)	10	3.49	3.15
644949	0.24" (6)	100	24.95	21.95
2158371	0.29" (7.3)	164	34.95	29.95
644957	0.31" (8)	10	3.95	3.55
644965	0.31" (8)	100	31.95	27.95
644990	0.59" (15)	10	7.95	7.25
2179796	0.75" (19)	100	39.95	35.95

Polyolefin Flexible Round Tubing

- Dielectric strength: 1300V
- Temp. range: -45°C to +125°C
- Flame retardant VW-1
- Color: black
- Precut 39" length (1 meter)

72063

Part No.	Dia. Before (mm)	1	10	100
71871	.079" (2.0)	$.79	$.69	$.59
71280	.098" (2.5)	.89	.79	.69
72063	.197" (5.0)	.99	.89	.79

Audio/Video Cables and Adapters

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5
Fig. 6 Fig. 7 Fig. 8 Fig. 9 Fig. 10
Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15
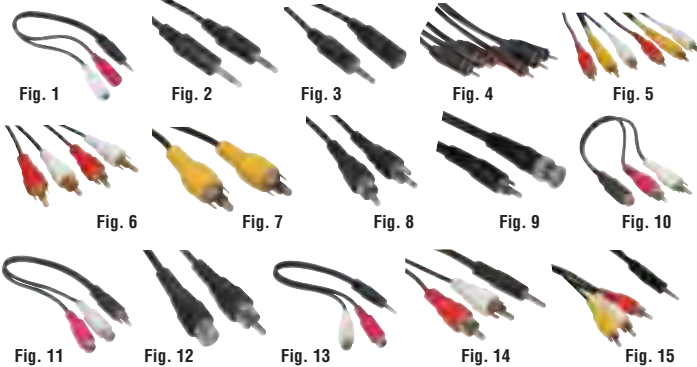
3.5mm Audio Splitter and Extension/Patch Cables

★ Web Code: JAU

Part No.	Fig.	Description	1	10	100
228398	1	6' 3.5mm stereo Y-cable F jacks (2) to M plug*	$2.35	$2.09	$1.89
2174637	2	2' 3.5mm stereo M to M plug (black)*	.95	.85	.75
228494	2	6' 3.5mm stereo M to M plug (black)	1.45	1.29	1.15
228515	3	6' 3.5mm stereo M plug to F jack (black)	2.35	2.09	1.89
228507	2	12' 3.5mm stereo M to M plug (black)	1.95	1.75	1.59
228523	3	12' 3.5mm stereo M plug to F jack (black)	1.95	1.75	1.59

*Manufacturer: Steren

RCA Audio/Video Patch Cables

★ Web Code: QAP

Part No.	Fig.	Description	1	10	100
2081852	4	6' RCA component video (3) M to (3) M	$2.95	$2.59	$2.25
228443	6	3' RCA stereo (2) M to (2) M plugs, gold plated	1.49	1.25	.95
183312	7	4' RCA M to M plug (black)	1.25	1.19	1.09
206974	7	4' RCA M to M plug (yellow)	1.19	1.09	.99
1949470	8	6' RCA M to M plug, gold plated	1.49	1.25	.95
106375	8	6' RCA M to M plug (black)*	1.75	1.59	1.25
2082417	7	6' RCA M to M plug (yellow)	.99	.89	.75
683059	9	6' RCA M BNC to M RCA cable (black)	3.95	3.49	2.95
228451	6	6' RCA stereo (2) M to (2) M plugs, gold plated*	1.95	1.75	1.49
29349	7	10' RCA mono M to M plug (yellow)	2.25	1.95	1.75
225980	5	12' RCA (3) M to (3) M plugs, gold plated	3.49	3.15	2.95
2209131	5	12' RCA (3) M to (3) M plugs with filter	2.95	2.49	2.25
228478	6	25' RCA stereo (2) M to (2) M plugs, gold plated	2.95	2.65	2.39

RCA Audio/Video Extension Cables

Part No.	Fig.	Description	1	10	100
228371	10	6" RCA (2) M plugs to RCA F jack*	$1.49	$1.35	$1.19
228355	11	6" RCA M plug to RCA (2) F jacks*	.95	.89	.85
228419	12	6' RCA mono M plug to F jack...................................	1.25	1.09	.99

RCA to 3.5mm Audio Cables

Part No.	Fig.	Description	1	10	100
2209051	13	4" RCA stereo (2) F jacks to 3.5mm stereo M plug .	$1.49	$1.25	$1.09
228380	13	6" RCA stereo (2) F jacks to 3.5mm stereo M plug* ..	1.49	1.25	1.09
228401	14	6' RCA stereo (2) M plugs to 3.5mm stereo M plug ..	1.95	1.75	1.59
2158274	15	6' RCA A/V (3) M plugs to 3.5mm M (4 pole)	1.95	1.75	1.49

DVI & High Definition Multimedia Interface (HDMI) Cables & Adapters

NEW MARKED IN PINK

★ Web Code: DEM

HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV and plasma monitors.

* Manufacturer: Steren

Fig. 1 Fig. 2 Fig. 3
Fig. 4 Fig. 5 Fig. 6 Fig. 7
Fig. 8 Fig. 9 Fig. 10

Part No.	Fig.	Product No.	Description	1	5	25
1944142	1	10HM-01128-01	HDMI male to male, 1 meter	$6.95	$5.95	$4.95
2205421	1	E057319000	HDMI male to male, 1.5 meters	3.95	3.59	3.29
1944151	1	10HM-01128-02	HDMI male to male, 2 meters	7.95	6.95	5.95
2145131	1	PCM-2295-03M	HDMI male to male, 3 meters	4.95	4.49	3.95
1944169	1	10HM-01128-05	HDMI male to male, 5 meters	10.95	9.95	8.95
2209220	1	CB-000022-A1	HDMI male to male, 5 meters, 24K gold	12.95	11.95	10.95
2187833	2	HDMI-3-MICRO	HDMI male to micro HDMI male, 3 ft.	7.95	6.95	5.95
2187841	2	HDMI-6-MICRO	HDMI male to micro HDMI male, 6 ft.	9.95	8.95	7.95
1944185	3	10HM-15128-02	HDMI male to DVI-D single link, 2 meters	6.95	6.49	5.95
2145140	3	PCM-2296-03M	HDMI male to DVI-D single link, 3 meters	8.95	7.95	6.95
2207689	4	516-006*	VGA to DVI-A male adapter	5.95	5.49	4.95
2192536	4	E27334-001	VGA-F to DVI-A male adapter	5.95	5.39	4.79
2207603	5	528-001*	HDMI right angle adapter	6.95	6.49	5.95
2207611	6	528-006*	HDMI coupler, inline, passive	5.95	5.49	4.95
2207646	7	BL-526-031*	HDMI passive repeater, 1080P/HDCP	26.95	25.95	24.95
1944214	8	30HM-15328-M	HDMI female to DVI-D dual link	6.95	5.95	4.95
2207591	9	516-008*	DVI-D single link to HDMI male adapter ..	7.95	7.49	6.95
320346	10	5313118067F0	DVI single link cable, 2 meters, black	3.95	3.49	2.95
1944265	10	10DV-07103-G	DVI dual link cable, 3 meters, beige	10.95	9.95	8.95

STEREN RCA Audio Adapters & Couplers

★ Web Code: KBQ

Part No.	Manufacturer	Product No.	Description	1	10	100
228283	Steren	251-120	RCA F jack to mono 1/4" M plug	$.69	$.59	$.55
228267	Steren	251-116	RCA F to F jack coupler, gold plated	.59	.55	.49

228283   228267

Switchcraft Microphone (XLR) Connectors

★ Web Code: ABV

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
277026	Switchcraft	A3F	1	3-pin female, straight cord plug w/ latchlock	81.8 x 19 Dia.	$5.95	$5.49	$4.95
319003	Steren	250-720	1	3-pin female, straight cord plug w/ latchlock	81.5L x 7.43D	2.25	1.95	1.75
281560	Switchcraft	A3M	2	3-pin male, straight cord plug, latch holder	70.6 x 19 Dia.	4.55	3.95	3.65
319011	Steren	250-710	2	3-pin male, straight cord plug, latch holder	70.6L x 7.31D	2.95	2.65	2.39
281640	Switchcraft	D3F	3	3-pin female, metal, panel mount, latchlock	27.0W x 36.3H X 30.6D ..	4.49	3.95	3.49
319038	Steren	250-705	3	3-pin female, metal, panel mount, latchlock	26.2W x 35.5H x 35.9D ..	3.95	3.49	2.95
281658	Switchcraft	D3M	4	3-pin male, metal, panel mount, latch holder	22.1W x 36.3H x 22.9D ..	4.49	3.95	3.49
1774711	Switchcraft	PQG3M5T111	5	3-pin male, plastic panel mount, PCB term.	27.1W x 30.0H x 19D ..	2.95	2.59	2.29
281594	Switchcraft	A4M	6	4-pin male, straight cord plug, latch holder	70.6L x 19Dia.	6.95	6.49	5.95

Fig. 1 Fig. 2 Fig. 3
Fig. 4 Fig. 5 Fig. 6

Interconnects

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Interconnects

Switchcraft® | JAMECO ValuePro | Stereo, Phone, Audio Plugs & Jacks ★ Web Code: AJS

✲ Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Description	Dimensions (mm)	1	10	100
101152	ValuePro	PJ1035	1	3.5mm mono audio plug, plastic	53L x 3.9 ID	$.69	$.59	$.49
2200954	ValuePro	JR1037	1A	3.5mm audio plug, 4-position, plastic	47.8L x 4.5 ID	1.95	1.75	1.49
231160	ValuePro	PJ1035	2	3.5mm mono audio plug, metal	43.7L x 4.27 ID	1.49	1.25	.99
231176	ValuePro	AP340	1	3.5mm stereo audio plug, plastic	53L x 4.12 ID	.79	.69	.55
231167	ValuePro	AP343	2	3.5mm stereo audio plug, metal	52.4L x 4.25 ID	1.49	1.25	.99
281869	Switchcraft	750	3	3.5mm mono audio plug, plastic	41.5L x 5.7 ID	4.25	3.95	3.75
281754	Switchcraft	250	4	1/4" mono phone audio plug, plastic	73.7L x 7.6 ID	3.95	3.59	3.19
281789	Switchcraft	297	5	1/4" stereo phone audio plug, metal	73.7L x 7.6 ID	4.95	4.49	3.95
281771	Switchcraft	280	6	1/4" mono phone audio plug, metal	73.7L x 7.6 ID	4.49	3.69	3.25
229921	ValuePro	JR1625BLK	7	RCA plug, plastic, black (5 pk)	51.5L x 5.0 ID	1.65	1.49	1.35
229930	ValuePro	JR1625	8	RCA plug, plastic, red (5 pk)	51.5L x 5.0 ID	1.65	1.49	1.35
281800	Switchcraft	3502	9	RCA phone audio plug, metal	33.8L x 5.0 ID	2.49	2.19	1.95
2202933	ValuePro	M1001	10	3.5mm mono (F) to 3.5mm stereo (M) adapter	37.3L x 3.5ID	1.25	1.09	.99
2095437	ValuePro	J355W[1]	11	3.5mm stereo audio jack, panel mt., terminal	10.1H x 8.4W x 17.6L	1.49	1.15	.99
281834	Switchcraft	41	12	3.5mm audio jack, panel mount, terminal	7.8L x 5.9 Dia.	2.95	2.59	2.29
2161529	ValuePro	PJ-3065AM[1]	13	3.5mm stereo jack, rt. angle horz., threaded†	6.0H x 11.0W x 8.0L	1.45	1.29	1.19
568392	Switchcraft	35RAPC4BH3[1]	13	3.5mm stereo jack, rt. angle horz., threaded†	6.0H x 11.0W x 8.0L	1.95	1.75	1.49
1766180	Switchcraft	35RAPC4BHN2	13	3.5mm stereo jack, rt. angle horz., non-threaded	5.0H x 12.0W x 15.0L	1.45	1.29	1.19
2081334	Shogyo	354-3PY[5]	13	3.5mm mono jack, rt. angle horz., non-threaded	6.1H x 11.9W x 12.0L	.99	.79	.59
2100291	ValuePro	354-PY (CT)[1]	14	3.5mm mono jack, rt. angle horz., threaded	6.45H x 11.7W x 14.3L	1.09	.89	.69
2168131	Adam Tech	ASJ	15	3.5mm stereo jack, rt. angle horizontal mount	6.0H x 12.0W x 14.0D	.59	.55	.49
2177740	ValuePro	DTJ-0366	16	3.5mm stereo jack, rt. angle horz., non-threaded	10.45H x 12.0W x 6.8L	.89	.75	.65
2168149	ValuePro	ASJ-5-3	17	3.5mm stereo jack, rt. angle ver., non-threaded, PCB	12.3H x 8.1W x 14.0L	✲	.22	.17
2161537	ValuePro	PJ-3066AM[1]	17	3.5mm mono jack, rt. angle ver., threaded	11.6H x 7.7W x 14.0L	.89	.75	.65
1766121	Switchcraft	35RAPC2AV[1]	17	3.5mm mono jack, rt. angle ver., threaded	11.6H x 7.7W x 14.0L	1.25	1.19	1.09
2161553	ValuePro	PJ-3064AM[1]	17	3.5mm stereo jack, rt. angle ver., threaded	12.3H x 8.1W x 14.0L	1.19	1.09	.99
1766198	Switchcraft	35RAPC4BV4[1]	17	3.5mm stereo jack, rt. angle ver., threaded	12.3H x 8.1W x 14.0L	2.49	2.19	1.95
2095373	ValuePro	HTJ-035-22D	18	3.5mm mono jack, rt. angle horz., non-threaded, blk.	10.45H x 10.0W x 14.0L	.99	.89	.79
2201607	ValuePro	PJ31640	30	3.5mm audio jack, 4-pos., panel mount	16.35L x 8.0D	2.25	1.95	1.59
2180842	Switchcraft	838	19	1/4" mono phone jack, in-line	54.4L x 18.7D	4.95	4.49	3.95
2161490	ValuePro	JR-1804[3]	20	1/4" mono phone audio jack, 2-pos., single open	12.8L x 9.1" Dia.	1.09	.99	.89
281738	Switchcraft	11[4]	20	1/4" mono phone audio jack, 2-pos., single open	12.8L x 9.1 Dia.	1.95	1.75	1.59
2161502	ValuePro	JR-1803[3]	21	1/4" mono phone audio jack, 2-pos., single closed	31.7L x 9.4 Dia.	1.75	1.55	1.25
2161140	ValuePro	JR-1802[3]	21	1/4" stereo phone audio jack, 3-pos., double open	14.7L x 9.1 Dia.	1.75	1.55	1.25
281746	Switchcraft	12B[4]	21	1/4" stereo phone audio jack, 3-pos., double open	14.7L x 9.1 Dia.	2.95	2.59	2.29
1774016	Switchcraft	MN12B	22	1/4" mono phone jack, 3 cond. plastic bushing	19.9L x 15.7W x 15.7H	2.95	2.59	2.39
2178646	Switchcraft	MNS112B	22	1/4" mono phone jack, 3 cond, plastic bushing	19.9L x 15.7W x 15.7H	2.95	2.59	2.39
297537	Switchcraft	N111	22	1/4" mono phone jack, 2 Conn.	19.8L x 15.6W x 15.6H	2.49	2.25	1.95
1775254	Switchcraft	SN37A12B	23	1/4" mono phone jack, right angle, PCB	27.6L x 15.6W x 15.0H	1.75	1.49	1.25
2120209	ValuePro	STJ-25	24	1/4" stereo phone audio jack, shielded, threaded	20.8L x 16.7W x 16.5H	1.69	1.49	1.35
220581	ValuePro	KY-006-1(W)	25	RCA jack, PCB mount, white, metal	11.2H x 14.2W x 12.2L	.85	.75	.69
220556	ValuePro	KY-006-1(R)	25	RCA jack, PCB mount, red, metal	11.2H x 14.2W x 12.2L	.85	.75	.69
220572	ValuePro	KY-006-1(B)	25	RCA jack, PCB mount, black, metal	11.2H x 14.2W x 12.2L	.85	.75	.69
220564	ValuePro	KY-006-1(Y)	25	RCA jack, PCB mount, yellow, metal	11.2H x 14.2W x 12.2L	.85	.75	.69
2076359	ValuePro	AJ842G3	26	RCA jack, PCB mount, rt. angle, red/white/yellow (3)	40.6H x 22.9W x 21.6L	.59	.55	.49
319249	Velleman	CA066	27	RCA jack, 2 pair stereo, panel mount, red/white	73.7H x 12.2W x 24.9L	.95	.85	.75
159485	ValuePro	CS7021-DN-BLK-R[5]	28	RCA jack, panel mount, black	21.3W x 9.7H	.95	.85	.75
172340	ValuePro	CS7021-DN-RD-R[5]	28	RCA jack, panel mount, red	21.3W x 9.7H	.85	.75	.69
2187884	ValuePro	RJ2606	29	Speaker terminal board, 4-pos., pushbutton	76.2H x 25.4W x 31.8D	1.95	1.69	1.29
2123469	GC/Waldom	33-1404	29	Speaker terminal board, 4-pos., pushbutton	76.2H x 25.4W x 31.8D	2.25	1.95	1.75

Additional panel mounting hardware – **1** 2183218, **2** 2182602, **3** 2182709, **4** 2182611, **5** 2183349 (includes washer & nuts), see module below   † Closed circuit

Fig. 1 | Fig. 1A | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 | Fig. 6 | Fig. 7 | Fig. 8 | Fig. 9 | Fig. 10 | Fig. 11 | Fig. 12 | Fig. 13 | Fig. 14 | Fig. 15 | Fig. 16 | Fig. 17 | Fig. 18 | Fig. 19 | Fig. 20 | Fig. 21 | Fig. 22 | Fig. 23 | Fig. 24 | Fig. 25 | Fig. 26 | Fig. 27 | Fig. 28 | Fig. 29 | Fig. 30

JAMECO ValuePro | Panel Mounting Hardware for Plugs and Jacks ★ Web Code: PAM

Part No.	Ref. #	Description	1	10
2183218	1	M6 x 0.50"; (1) flat washer, (2) hex nuts	$.69	$.59
2182602	2	M8 x 0.75"; (1) flat washer, (2) hex nuts	.79	.69
2182709	3	M9 x 0.75"; (1) flat washer, (2) hex nuts	.69	.59
2182611	4	3/8-32 NEF thread; (1) internal tooth washer, (2) hex nuts	.69	.59
2183349	5	1/4-32 thread; (1) internal tooth washer, (2) hex nuts	.69	.59

2183218 | 2182602 | 2182709 | 2182611 | 2183349

AMP   **Amphenol Connex**   ## D-Subminiature Connectors

Right Angle PCB Mount
Metal .318" Setback – Tin plated short style

★ Web Code: ESO

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
1952839	Foxconn	D-SUB-9M†	9	M	$.55	$.45	$.35
104943	ValuePro	DB9P318	9	M	.85	.75	.65
71124	ValuePro	DA15P318†	15	M	.85	.75	.65
71125	ValuePro	DA15P318	15	M	.95	.85	.75
77956	ValuePro	DA15S318	15	F	.95	.85	.75
2145001	ValuePro	PT285805-15††	15	F	.79	.69	.59
1952273	Kycon	HDDSUB-15S†*	15	F	.69	.59	.49
71466	ValuePro	HDDB15S318*	15	F	.99	.89	.79
15150	ValuePro	DB25P318	25	M	1.09	.99	.89
15182	ValuePro	DB25S318	25	F	1.09	.99	.89
71706	ValuePro	1008-37P†	37	M	1.75	1.49	1.25

*High Density   † Without female jack screws   †† Non-removable jack screws   § SMT

Right Angle PCB Mount
Metal .590" Set Back – Tin plated long style
• Current rating: 1A

★ Web Code: HAN

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
104970	ValuePro	DB9P590	9	M	$1.09	$.99	$.89
2180981	JST	JKEY9S3D13	9	F	.99	.89	.79
104978	ValuePro	DB9S590	9	F	1.09	.99	.89
104985	Astron	DA15P590†	15	M	.79	.69	.59
104993	ValuePro	DA15S590†	15	F	.89	.79	.69
105013	ValuePro	DB25S590†	25	F	1.49	1.25	1.09
2135056	ValuePro	1011-25A-R	25	F	.99	.89	.79

† Without female jack screws

IDC Ribbon Cable
★ Web Code: MAP
• Contact material: phosphor bronze
• Terminates with standard D-type connectors

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
109226	ValuePro	MDB9P	Metal	9	M	$1.95	$1.75	$1.49
12504	ValuePro	CDB9P	Plastic	9	M	1.75	1.49	1.25
109218	ValuePro	MDB9S	Metal	9	F	1.95	1.75	1.49
12521	ValuePro	CDB9S	Plastic	9	F	1.75	1.49	1.25
117382	ValuePro	MDA15P	Metal	15	M	2.25	1.95	1.75
12319	ValuePro	CDA15S	Plastic	15	F	1.75	1.49	1.25
116012	ValuePro	MDA15S	Metal	15	F	1.95	1.75	1.49
115984	ValuePro	MDB25P	Metal	25	M	2.49	2.25	1.95
2168034	Adam Tech	DB25-PF-M2	Metal	25	M	2.75	2.49	2.25
12335	ValuePro	CDB25P	Plastic	25	M	2.09	1.85	1.65
115976	ValuePro	MDB25S	Metal	25	F	2.49	2.25	1.95
2162708	CWI	CMP37TW#	Metal	37	M	1.25	1.09	.95
115992	ValuePro	MDC37P	Metal	37	M	2.95	2.65	2.39
116004	ValuePro	MDC37S	Metal	37	F	2.95	2.65	2.39

Without strain relief

Panel Bracket Cable Assemblies
★ Web Code: RAX
• Standard back panel bracket
• Length: 12"
• Ribbon cable with header connector

Part No.	Description	Port	1	10	100
355688	DB9M to 10-pin header F	1 serial	$1.49	$1.35	$1.19
1952265	DB9F to 10-pin header F	1 serial	1.09	.95	.85

Metal Solder-Cup
★ Web Code: EAB   203799

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
15748	ValuePro	1001-9P-R	9	M	$.85	$.75	$.65
222990	AMP	747904-2	9	M	2.49	2.19	1.95
15771	Steren	500-109	9	F	.79	.65	.49
2125510	Amphenol	DB9S-SFJ**	9	F	.75	.65	.55
223052	AMP	747905-2	9	F	2.49	2.25	1.95
15035	ValuePro	1001-15P-R	15	M	.95	.85	.75
15078	ValuePro	1002-15P-R*	15	M	1.09	.89	.75
15052	ValuePro	1001-15S-R	15	F	.95	.85	.75
164823	ValuePro	1002-15S-R*	15	F	1.09	.89	.75
15115	ValuePro	1001-25P-R	25	M	1.25	.99	.89
223010	AMP	747912-2	25	M	2.49	2.25	2.09
15157	Steren	500-125	25	M	1.25	.99	.89
223079	AMP	747913-2	25	F	2.49	2.25	2.09
203799	ValuePro	1002-26P*	26	M	.65	.55	.45
15473	ValuePro	1002-37P	37	M	1.35	1.09	.99
15500	ValuePro	1001-37S	37	F	1.35	1.09	.99
2185758	Amphenol-RF	17-20370-11	37	F	1.95	1.75	1.49
482732	Amphenol	EDD50P	50	M	2.49	2.25	1.95
482741	Amphenol	EDD50S	50	F	2.95	2.59	2.25

*High Density   **With female jack screws

Metal Straight PCB Mount
★ Web Code: SBK   2133510

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
111692	ValuePro	DB9PPCB	9	M	$.59	$.49	$.39
15781	ValuePro	DB9SPCB	9	F	.59	.49	.39
176760	ValuePro	DA15PPCB	15	M	.65	.55	.45
176752	ValuePro	DA15SPCB	15	F	.65	.55	.45
2133510	AMP	749798-1*	15	M	.65	.55	.39
15123	ValuePro	DB25PPCB	25	M	.85	.75	.65
15165	ValuePro	DB25SPCB	25	F	.85	.75	.65
180021	ValuePro	DC37SPCB	37	F	1.25	1.09	.99

*High Density

Crimp-Type
★ Web Code: UBR   73189   38771

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
73189	Steren	500-010	9	M	$.65	$.55	$.45
222640	AMP	205204-1 (Tin)	9	M	.89	.79	.69
73197	Steren	500-110	9	F	.65	.55	.45
222842	AMP	205203-3 (Tin)	9	F	.89	.79	.69
222691	AMP	205203-1 (Zinc)	9	F	.99	.89	.79
38789	ValuePro	500-027	25	M	.89	.75	.65
38771	Steren	500-1N27	25	F	.89	.75	.65

★ **Additional D-Sub Connectors — Enter Web Code DSB**

BEST SELLING MOTORS

Part No.	Description	Price
2209035	1.3VDC, 85mA vibrating motor	$2.75
256314	3VDC, 75mA vibrating motor	3.25
211246	4.5VDC, 1430mA DC motor	2.75
2173044	6VDC, 90mA DC motor	3.95
238473	12VDC, 170mA DC motor	3.49
2209203	12VDC, 200mA DC motor	4.95
2081895	12VDC, 690mA DC motor	1.95
2167592	12VDC, 750mA DC motor	3.49
2217810	12VDC, 930mA DC gear motor	4.95
2212162	24VDC, 600mA stepper motor	21.95

2209035   2209203

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Interconnects

Female Jack Screws

15150

Interconnects

AMP — D-Sub Solder & Crimp Contacts

★ *Web Code: JDC*
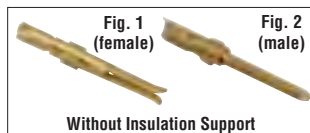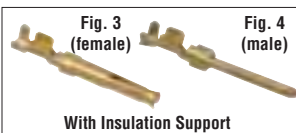
Fig. 1 (female)	Fig. 2 (male)	Fig. 3 (female)	Fig. 4 (male)	Fig. 5 (female)	Fig. 6 (male)
Without Insulation Support		With Insulation Support			
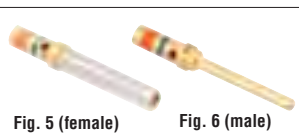
Female Solder Contact – Fig. 1

Part No.	Mfr.	Product No.	AWG	1	10	100
223319	AMP	66569-3	18 ...	$.29	$.25	$.19

Male Solder Contact – Fig. 2

Part No.	Mfr.	Product No.	AWG	1	10	100
234982	AMP	66570-3	28-24	$.35	$.29	$.25

Female Crimp Contacts – Fig. 3

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	1000
43369	ValuePro	500-155	28-24 ...	$.15	$.12	$.09
185412	ValuePro	1006-PS	28-24 ...	.09	.07	.06
223221	AMP	1-66505-0	28-24 ...	.15	.12	.09
223247	AMP	745253-6	26-22 ..	.15	.12	.09
860001	AMP	66504-4	24-20 ..	.07	.06	.05
223298	AMP	66504-9	24-20 ..	.19	.15	.12
223255	AMP	1-66504-0	24-20 ..	.19	.15	.12

Male Crimp Contacts– Fig. 4

✳ *Order in multiples of 10*

Part No.	Mfr.	Product No.	AWG	1	10	100
185421	ValuePro	1006-PP	28-24	✳	$.07	$.05
43377	ValuePro	500-055	28-24		.15	.12
223108	AMP	66507-9	28-24	✳	.15	.12
223132	AMP	745254-7	26-22 ..	.29	.25	.19
223191	AMP	66506-9	24-20		.19	.15
223167	AMP	1-66506-0	24-20	✳	.15	.12

Female Crimp Contact (M39029/63-368) – Fig. 5
• Machined

Part No.	Mfr.	Product No.	1	10	100
449351	AMP	205090-1	$.49	$.45	$.39

Male Crimp Contact (M39029/64-369) – Fig. 6
• Machined

Part No.	Mfr.	Product No.	1	10	100
449342	AMP	205089-1	$.49	$.45	$.39

AMP — Hardware for D-Sub Connector Hoods

Amphenol RF

★ *Web Code: PAM*

16548 (4 pcs.) **2100283** (2 pcs.) **2185766** (12 pcs.) **102796** **2186195** **125015** .20" thread
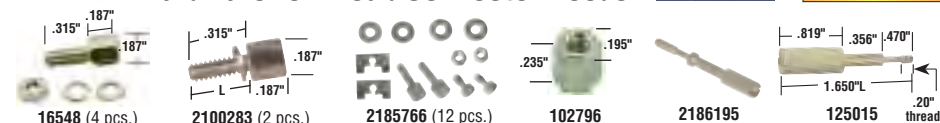
4-40 Hex Jack Screw Sets

16548: 4-40 Hex (.187"W x .187"H x .315"L thread) jack screw, nut & washer set – plating B

2100283: 4-40 Hex (.187"W x .187"H x .315"L thread) jack screw with lock washer – plating D

444912: 4-40 Hex (.187"W x .187"H x .630"L thread) jack screw, nut & washers set – plating C

2185766: 4-40 Hex (.187"W x .187"H x .356"L thread) jack screw, nut & washers screws & clip – plating A

✳ *Order in multiples of 10*

Part No.	Mfr.	Prod. No.	Plating*	1	10	100
16548	ValuePro	14-522	B ...	$.69	$.55	$.49
2100283	ValuePro	JS4403LW	D	✳	.19	.15
444912	Cinch	D20418-39	C ...	1.95	1.75	1.59
2185766	Amphenol	17-768	A ...	1.49	1.25	1.09

4-40 Slotted D-Sub Plastic Thumbscrew

Part No.	Mfr.			1	10	100
125015	ValuePro	1.65"	A	$.29	$.25	$.19

4-40 x .187" Jack Screws

✳ *Order in multiples of 10*

Part No.	Mfr.	Length	Plating*	1	10	100
169931	ValuePro	.275"	A	$.29	$.25	$.19
2100283	ValuePro	.315"	D	✳	.19	.15
102816	ValuePro	.437"	B	.45	.39	.29
2183390	ValuePro	.467"	A	.35	.29	.25
108987	ValuePro	.515"	A	.49	.45	.35

4-40 x .187"/.195" Standoffs

Part No.	Mfr.	Length	Plating	1	10	100
175636	ValuePro	.187"	B ...	$.29	$.25	$.19
102796	ValuePro	.235"	A	.35	.29	.25

4-40 Slotted D-Sub Knurled Thumbscrews

Part No.	Mfr.	Length	Plating	1	10	100
2186195	SPC	1.45"	B	$.25	$.19	$.15
2186216	SPC	1.54"	B	.29	.25	.19
2179438	SPC (2pk)	2.83"	B	.39	.32	.27

*Plating – **A:** Zinc, clear chromate **B:** Chrome
C: Zinc, yellow chromate **D:** Chrome with lock washer

JAMECO ValuePro — Slim-Line D-Sub Gender Changers/Coupler

★ *Web Code: YAB*

119320 **119301** **170085**

For Confined Applications!
• Captive locking screw (male)
• Captive locking nut (female)
• Grounding tangs (male)
• Tin plated shells
• Width: 0.69"

Part No.	Description	1	10	100
18498	9-pin male to male	$1.95	$1.75	$1.49
18489	9-pin female to female	1.95	1.75	1.49
119320	15-pin female to female HD	2.25	1.95	1.75
119301	15-pin male to male HD	2.25	1.95	1.75
18447	25-pin male to male	2.49	2.25	1.95
18420	25-pin female to female	2.49	2.25	1.95
170085	25-pin male to female (pass thru)	2.49	2.25	1.95

JAMECO ValuePro — D-Sub Connector Hoods

★ *Web Code: DAB*

25620 Metallized **230893** Plastic **15086** Plastic

• Use with D-sub solder cup and housing style connectors (hardware included)
D Series: Plastic hood with strain relief (gray)
MD Series: Metal coated plastic hood w/ strain relief
MH Series: Die-cast metal hood with strain relief

Part No.	Mfr.	Product No.	Pins	1	10	100
15722	ValuePro	DB9H	9 ..	$.69	$.59	$.49
25620	ValuePro	MDB9H	9	.75	.69	.59
147741	ValuePro	MHDB9	9 ..	1.75	1.49	1.25
230893	AMP	205729-1†	9 ..	2.95	2.75	2.49
15019	ValuePro	DA15H	15 ...	.89	.75	.65
25567	ValuePro	MDA15H	15	1.09	.95	.75
15086	ValuePro	DB25H	25 ...	.69	.59	.49
25604	ValuePro	MDB25H	25 ...	.99	.85	.69
15107	ValuePro	MHDB25	25	2.49	2.25	1.95
25612	ValuePro	MDC37H	37 ..	.89	.79	.65

† Plastic clam shell hood (black)

JAMECO ValuePro — 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors.
Kit includes: Backshell and hardware

Part No.	Description	1	10	100
34091	25-pin hood	$.99	$.89	$.79

★ *Junction Shells — Enter Web Code DAB*

D-Sub Crimping Tool

• Heavy-duty metal tool with cutter and insulated handles
• For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
• Coiled spring return • Size: 7.3"L x 1.5"W

★ *Web Code: GBU*

Part No.	Mfr. Part No.	1	5	25
99443	HT202A	$9.95	$8.95	$7.95

More Tools on pages 125-130

JAMECO ValuePro — D-Sub 9-Pin to 25-Pin Serial Adapters

10305

★ *Web Code: AAA*

• For use in AT or other computer systems that have 9-pin D-sub serial ports

189633: Thumbscrews on both sides

189633

Part No.	Description	1	10	100
10305	DB9 F to DB25 M	$1.75	$1.49	$1.25
189633	DB9 M to DB25 M	1.95	1.75	1.49

molex Power Connectors

- 5.03mm (.198") pitch
- Housing: nylon; UL94V-2
- Contact retention to housing: 20 lbs. min.
- Passive friction lock
- Temperature range: -40℃ to +105℃

Free Hanging Plug (Matrix) — **Panel Mount Plug (In-line)** — **Free Hanging Receptacle (Matrix)** — **Panel Mount Receptacle (In-line)**

.062" (1.57mm) Plugs (Contacts to the right) ★Web Code: HBL

- Current: 5.0A
- ✳ Order in multiples of 10

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224485	03-06-2023	2	Free hanging	In-line	224400 .... ✳	$.19	.15	
224506	03-06-2042	4	Free hanging	In-line	224426 ..... .35	.29	.25	
224514	03-06-2044	4	Free hanging	Matrix	224434 ..... .39	.35	.29	

.062" (1.57mm) Receptacles (Contacts to the right) ★Web Code: HBL

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224400	03-06-1023	2	Free hanging	In-line	224485 .... ✳	$.19	.15	
224426	03-06-1042	4	Free hanging	In-line	224506 ..... .39	.35	.29	
224434	03-06-1044	4	Free hanging	Matrix	224514 ..... .39	.35	.25	

.093" (2.36mm) Plugs (Contacts to the right) ★Web Code: CBL

- Current: 12A/circuit

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224071	03-09-2022	2	Free hanging	In-line	224143 ... $.25	.22	.15	
224080	03-09-2032	3	Free hanging	In-line	224151 ..... .29	.25	.19	
224098	03-09-2042	4	Free hanging	In-line	224160 ..... .35	.29	.25	

.093" (2.36mm) Receptacles (Contacts to the right) ★Web Code: CBL

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224143	03-09-1022	2	Free hanging	In-line	224071 ... $.25	.22	.15	
224151	03-09-1032	3	Free hanging	In-line	224080 ..... .29	.25	.19	
224160	03-09-1042	4	Free hanging	In-line	224098 ..... .55	.49	.45	
230156	03-09-1041 ℛ	4	Panel mount	In-line	224098 ..... .35	.29	.25	

molex Power Connector Contacts

- Contact: brass or phosphor bronze
- Temp. range: -40℃ to +105℃
- Tin plating

Crimp-Type Male — **Solder-Tail Male** — **Crimp-Type Female** — **Solder-Tail Female**

★Web Code: JBL

.062" (1.57mm) Bulk Contacts for Plugs & Receptacles — Order in multiples of 10

Part No.	Mfr.	Mfr. Part No.	Description	Gender	AWG	10	100	1000
224581	Molex	02-06-2132	Crimp type	M	24-30 ..... $.09	$.07	$.05	
224573	Molex	02-06-1132	Crimp type	F	24-30 .... .09	.07	.05	
224565	Molex	02-06-2103	Crimp type	M	18-24 .... .09	.07	.05	
224557	Molex	02-06-110	Crimp type	F	18-24 .... .09	.07	.05	
227379	Molex	02-06-8103	Solder tail	M	— .... .12	.09	—	
227387	Molex	02-06-7103	Solder tail	F	— .... .17	.15	.12	

.093" (2.36mm) Bulk Contacts for Plugs & Receptacles

Part No.	Mfr.	Mfr. Part No.	Description	Gender	AWG	10	100	1000
224207	Molex	02-09-2118	Crimp type	M	18-22 ..... $.12	$.09	$.07	
224215	Molex	02-09-1119	Crimp type	F	18-22 .... .15	.12	.09	
224223	Molex	02-09-2103	Crimp type	M	14-20 .... .12	.09	.07	
224231	Molex	02-09-1104	Crimp type	F	14-20 .... .12	.09	.07	
224240	Molex	02-09-2133	Solder tail	M	— .... .15	.12	.09	

Hand Crimp Tools

Designed to crimp terminals, strip and cut wires, and cut bolts. For Molex .062" & .093" (above) and KK® series (pg 56) crimp terminals.

308030 — **227491**

★Web Code: GBU

Part No.	Mfr. Part No.	Description	Length	Color	1	5
308030	W-HT-1919	For 14-24 AWG wires	8.3"L	Red $14.95	$13.95	
227491	W-HT-1921	For 18-30 AWG wires	8.3"L	Yellow 14.95	13.95	

★**Power Connectors — Enter Web Code BAM**

★**Rectangular Connectors — Enter Web Code RCC**

★**Networking Connectors — Enter Web Code NCS**

AMP D-Sub Pin Insertion/Extraction Tools

19094/527582/223335:
Plastic body; metal tips

19094/223335

★Web Code: LSS

527582

223327:
Handle with .050" hex wrench and exchangeable tips

223327

Part No.	Mfr.	Product No.	Contact Size	1	10
19094	ValuePro	500-200	— $3.95	$3.49	
527582	AMP	91067-1	22 .... 10.95	9.95	
223335	AMP	91067-2	20DM/DF .. 17.95	15.95	
223327	AMP	91285-1	HD-20....... 21.95	19.95	

AMP Extraction Tool

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

Part No.	Mfr. Part No.		1	5
841838	305183	....	$17.95	$15.95

molex .093" Power Connector Kits

Kit contains mating sets of housings and pins.

- Voltage: 250VAC
- Temp. range: -40℃ to +105℃

142181:
- 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts
- Current: 12A

142201:
- 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts
- Current: 9A

★Web Code: CAV

Receptacle — **Plug**

Standard Crimp Contacts

Female
.120 (3.09) / .865 (21.97)

Male
.093 (2.36) / .865 (21.97)

Inches (mm)

Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Mfr. Part No.	Description	1	10	100
142181	1545	2-pin kit $5.95	$5.49	$4.95	
142201	1490	4-pin kit 5.95	5.49	4.95	

JAMECO ValuePro .156" (3.96mm) Pitch AT Power Connector and Crimp Contact

- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25℃ to 85℃
- Withstanding volt.: 1500V/min.
- Insulation resistance: 1000MΩ min.
- For use with motherboards and power supplies
- Material: nylon 66 UL94V-2 white
- Contacts: brass, tin plated (P/N 78300)
- Applicable PC
- Board thickness: .063" (1.6mm)
- Size: **78327:** 0.94"L x 0.25"W x 0.74"H
  78319: 0.57"L x 0.11"W

★Web Code: QAT

78327

✳ Order in multiples of 10

Part No.	Description	1	10	100
78327	6-pin female housing .... $.25	$.19	$.15	
78319	Crimp terminal brass/tin .... ✳	.05	.04	

PHIHONG SWITCHING TABLE-TOP POWER SUPPLIES

★Web Code: DDZ

These special buy power supplies are economical and high quality. AC power cord not included (recommend P/N 38050 pg 103)

2202618

Part No.	Mfr. Part No.	Output Volt.@Curr.	Watts	Plug*	Eff. (%)	1	10
2202618	PSA18U-150	15 @ 1.20	18.0	1	70 ...... $9.95	$8.95	
2202546	PSA65U-180	18 @ 3.30	59.4	1	80 ...... 14.95	13.49	
2202538	PSA30U-240	24 @ 1.25	30.0	1	75 ...... 13.95	12.49	
2202562	PSA18U-480	48 @ 0.38	1.8	2	70 .... 9.95	8.95	

* Plug: 1) 2.1mm x 5.5mm; 2) 2.5mm x 5.5mm

★For additional products, availability and specifications visit *Jameco.com* and enter the Web Code in the product search box

Interconnects

.118" Pitch ATX Power Connector & Pin

JAMECO ValuePro

★ Web Code: FEM

For Motherboards and Power Supplies
- Current rating: 7A AC/DC   • Temperature range: -25°C to 85°C
- **147379:** Material: nylon 66, UL-94VO
- Material of post: tin-plated brass   • Diameter of post: 0.045"
- **147395:** Material: tin-plated brass
- Use crimping tool P/N 338678, pg 56

147379   147395

✳ Order in multiples of 10

Part No.	Description	L	W	H	Dia.	1	10	100
147379	20-pin male connector	1.7"	0.4"	0.6"	—	$.39	$.35	$.29
147395	Power terminal pin, F	0.59"	—	—	0.068"	✳	.15	.12

Power Connectors & Pins

JAMECO ValuePro

42730 (Male for 42076)

42650 (Female for 42068)

109146   117568

42076 (Male)   42068 (Female)

42076 (Male)   42068 (Female)

114931   115000

114922
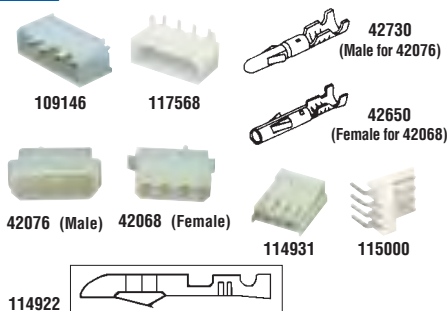
Connector & Housing Specifications:
- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:
- Material: tin plated brass
- Current rating: 1.5A
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, pg 127

★ Web Code: KAP

.100" – For 3.5" Disk Drives & Power Supplies
- Voltage rating: 250V AC, DC
- Insulation resistance: 1000MΩ min.
- Wire guage: 22-26 AWG

✳ Order in multiples of 10

Part No.	Description	1	10	100
114931	4-pin female housing	$.39	$.35	$.29
114922	Female crimp pin for 114931	.55	.49	.45
115000	4-pin male rt. angle PCB mounting	.49	.45	.39

.200" – For 5.25" Disk Drives & Power Supplies
42076 & 42068 Connector Housings:
- External key bar indicates pin 1
- Extraction tools, P/Ns 131887 & 131879 (see right)
- Keyed mating connectors

✳ Order in multiples of 10

Part No.	Description	1	10	100
109146	4-pin male vert. PCB mntg	$.85	$.75	$.65
117568	4-pin male PCB mntg, horiz. edge mnt	.95	.85	.75
42076	4-pin male housing	.29	.25	.19
42068	4-pin female housing	.29	.25	.19
42730	Male crimp pin for 42076	✳	.19	.15
42650	Female crimp pin for 42068	✳	.19	.15

Milli-Grid™ Female Crimp Terminal

molex

For 51110 Series Housings
- Lead free
- Contact material: phosphor bronze
- Plating contact: 0.38µm (15µ") gold
- Under plating: nickel

Order in multiples of 10

Part No.	Mfr. Part No.	AWG	10	100	500
668465	50394-8100	24-30	$.15	$.12	$.09

Connector Extraction Tools

Waldom

142156/142236   227467/227395   236128

Part No.	Mfr. Part No.	AWG	Conn. Size	1	5
142156	W-HT-2285	14	.062"	$14.95	$12.95
227467	W-HT-2023	18-30	.062"	12.95	11.95
142236	W-HT-2038	14	.093"	14.95	12.95
227395	W-HT-2054	14-30	.093"	9.95	8.95
236128	W-HT-1884	22-30	.100"	10.95	9.49

★ Extraction Tools — Enter Web Code BAV

★ IDC Connectors — Enter Web Code DCD

Extraction Tools for Crimp Terminals

JAMECO ValuePro

- Quickly and easily extract .093" locking pins from interlocking connectors   • Length: 5"

131887

Part No.	Description	1	5
131887	Male tool for 42730, left	$10.95	$9.95
131879	Male tool for 42650, left	9.95	8.95

MTA-100 .100" (2.54mm) IDC Connector

AMP

Closed-End Style w/o Polarizing Tabs with Locking Ramp
- Contacts: phosphor bronze, tin-plated
- Voltage rating: 250VAC
- Current rating: 5A

★ Web Code: DCD

Order in multiples of 10

Part No.	Mfr. P/N	Pos.	AWG	Color	10	100	500
524710	640440-4	4	22	Red	$.22	$.19	$.17

.100" & 2mm Shorting Blocks

JAMECO ValuePro

22024 (open)   112432 (closed)   152671 (closed)

- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male header (P/N 109576, pg 55)
- Pin material: phosphor bronze

★ Web Code: MAC

Open: Open on top to allow for a test point
Closed: Closed top
119264: 2mm (for disk drives)

Order in multiples of 10

Part No.	Description	10	100	500
22024	Top open, black (.100")	$.15	$.12	$.09
119264	Top open, black (2mm)	.15	.12	.09
112425	Top open, blue (.100")	.15	.12	.09
112417	Top open, red (.100")	.15	.12	.09
19141	Top closed, black (.100")	.15	.12	.09
112442	Top closed, blue (.100")	.15	.12	.09
112432	Top closed, red (.100")	.15	.12	.09
152671	Top closed, black tab (.100")	.15	.12	.09

Jameco Electronics Puzzler

By Forrest M. Mims III

Missing SMT Resistor

19 Jameco Puzzler

Engineer Tony Watts designed a top secret circuit for one of his company's key clients, who was scheduled to visit that afternoon. The prototype built on a PC board with standard components worked fine. But, Watts' boss enthusiastically pointed his pencil at one of the tiny postage stamp size versions Watts had made with surface mount components and said "That's what we need to show him!" Unfortunately, the tiny circuit lacked a 1MΩ surface mount resistor and Watts' order from Jameco would not arrive until the next day. How did Watts improvise a SMT 1MΩ resistor and demonstrate a working version of the tiny circuit when the client arrived?

Go to www.Jameco.com/Resistor for correct answer.

Interconnects

OST AMP JAMECO ValuePro

.100" (2.54mm) Straight and Right Angle Male Headers

Right Angle Single Row
†Right Angle Single Row
Straight Single Row
Right Angle Double Row
Straight Double Row
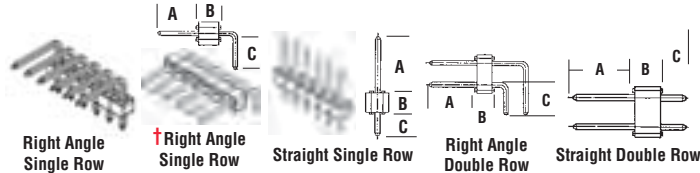
.100" (2.54mm) Right Angle Single Row Male Headers ★ Web Code: DAH

Part No.	Mfr.	Product No.	Pins	Size (A"xB"xC")	Plating	1	10	100
2076842	ValuePro	RMH5	5	.27 x .10 x .12	Gold	✳	$.15	$.12
2076851	ValuePro	RMH6	6	.27 x .10 x .12	Gold	.29	.25	.19
153728	ValuePro	RMH8	8	.27 x .10 x .12	Gold	.45	.39	.35
2076869	ValuePro	RMH26	26	.27 x .10 x .12	Gold	.59	.49	.39
103271	ValuePro	RMH36 (LP)†	36	.23 x .10 x .12	Gold	.95	.79	.65
1946041	ValuePro	RMH36AR (type A)	36	.27 x .10 x .22	Gold	.95	.79	.65

† Low profile

.100" (2.54mm) Straight Single Row Male Headers ★ Web Code: TAM

✳ Order in multiples of 10

Part No.	Mfr.	Product No.	Pins	Size (A"xB"xC")*	Plating	1	10	100
2076797	ValuePro	SMH01	1	.23 x .10 x .12	Gold	✳	$.07	$.06
2144884	ValuePro	SMH02	2	.23 x .10 x .12	Tin	.25	.19	.15
108338	ValuePro	SMH02	2	.23 x .10 x .12	Gold	.29	.25	.19
421489	AMP	103185-3	3	.23 x .09 x .12	Gold/Tin	.35	.29	.25
109576	ValuePro	SMH03	3	.23 x .10 x .12	Gold	.35	.29	.25
117560	ValuePro	SMH04	4	.23 x .10 x .12	Gold	.35	.29	.25
2120276	OST	PHI-787/120-041	4	.78 x .10 x .12	Gold	.29	.25	.19
2076789	ValuePro	SMH05	5	.23 x .10 x .12	Gold	.29	.25	.19
153700	ValuePro	SMH06	6	.23 x .10 x .12	Gold	.29	.25	.19
153702	ValuePro	SMH08	8	.23 x .10 x .12	Gold	.35	.29	.25
2076818	ValuePro	SMH09	9	.23 x .10 x .12	Gold	.39	.35	.29
103393	ValuePro	SMH10	10	.23 x .10 x .12	Gold	.39	.35	.29
103377	ValuePro	SMH17	17	.23 x .10 x .12	Gold	.39	.35	.29
103369	ValuePro	SMH20	20	.23 x .10 x .12	Gold	.39	.35	.29
202825	ValuePro	SMH22	22	.23 x .10 x .12	Gold	.39	.35	.29
103351	ValuePro	SMH25	25	.23 x .10 x .12	Gold	.45	.39	.35
103342	ValuePro	SMH30	30	.23 x .10 x .12	Gold	.45	.39	.35
2207849	ValuePro	SMH32	32	.23 x .10 x .12	Gold	.45	.39	.35
2076826	ValuePro	SMH34	34	.23 x .10 x .12	Gold	.45	.39	.35
68339	ValuePro	SMH36	36	.23 x .10 x .12	Gold	.49	.45	.39
2168211	Adam Tech	PH1-40-UA	40	.23 x .10 x .12	Gold/Tin	.35	.29	.25
160882	ValuePro	SMH40	40	.23 x .10 x .12	Gold	.75	.65	.59
527654	AMP	4-102976-0	40	.32 x .09 x .12	Gold/Tin	3.49	3.09	2.75

*Dimension "A" has gold plating; dimension "C" has tin plating

.079" (2mm)/.100" (2.54mm) Male Headers Grab Bag ★ Web Code: GBS

Part No.	Cross Ref.	Description	Wt. (lbs.)	1	10
2095138	GB204	100 assorted .100" male headers (breakway) Straight, right angle, single and double row	0.3	$9.95	$8.95

.100" (2.54mm) Right Angle Double Row Male Headers ★ Web Code: DAP

• 10 pins are 2 rows of 5 pins (example)

Part No.	Mfr.	Cross Ref. No.	Pins	Size (A"xB"xC")	Plating	1	10	100
203932	ValuePro	923810DR	10	.23 x .10 x .12	Gold	$.35	$.29	$.25
203959	ValuePro	923814DR	14	.23 x .10 x .12	Gold	.29	.25	.19
203967	ValuePro	923816DR	16	.23 x .10 x .12	Gold	.39	.29	.25
53576	ValuePro	923820DR	20	.23 x .10 x .12	Gold	.59	.55	.45
53583	ValuePro	9238260DR	26	.23 x .10 x .12	Gold	.65	.59	.49
53605	ValuePro	923840DR	40	.23 x .10 x .12	Gold	.89	.79	.69
53612	ValuePro	923850DR	50	.23 x .10 x .12	Gold	.95	.85	.75
103413	ValuePro	923872DR	72	.23 x .10 x .12	Gold	1.09	.95	.85
139564	ValuePro	923880DR	80	.23 x .10 x .12	Gold	1.39	1.25	1.09

.100" (2.54mm) Straight Double Row Male Headers ★ Web Code: QCM

• 10 pins are 2 rows of 5 pins (example)   ✳ Order in multiples of 10

Part No.	Mfr.	Product No.	Pins	Size (A"xB"xC")*	Plating	1	10	100
115027	ValuePro	923804DS	4	.23 x .10 x .12	Gold	✳	$.19	$.15
115035	ValuePro	923806DS	6	.23 x .10 x .12	Gold	.29	.25	.19
15747	ValuePro	DMH06-30	6	.30 x .10 x .12	Gold	✳	.12	.09
2135312	ValuePro	FCN-724P008-AU/W	8	.23 x .10 x .12	Gold/Tin	.29	.25	.19
109517	ValuePro	7000-2x4SG	8	.23 x .10 x .12	Gold	.39	.35	.29
67821	ValuePro	923810DS	10	.23 x .10 x .12	Gold/Tin	.39	.35	.29
203810	ValuePro	923812DS	12	.23 x .10 x .12	Gold	.39	.35	.29
118456	ValuePro	923814DS	14	.23 x .10 x .12	Gold	.55	.49	.45
109568	ValuePro	923816DS	16	.23 x .10 x .12	Gold	.59	.55	.49
53480	ValuePro	923820DS	20	.23 x .10 x .12	Gold	.65	.59	.55
203844	ValuePro	923824DS	24	.23 x .10 x .12	Gold	.65	.59	.55
53495	ValuePro	923826DS	26	.23 x .10 x .12	Gold	.65	.59	.55
2120292	OST	PH2-320/110-261	26	.30 x .10 x .12	Gold	.49	.45	.39
203852	ValuePro	923828DS	28	.23 x .10 x .12	Gold	.69	.65	.55
203861	ValuePro	923832DS	32	.23 x .10 x .12	Gold	.69	.65	.55
53517	ValuePro	923834DS	34	.23 x .10 x .12	Gold	.69	.65	.55
203888	ValuePro	923836DS	36	.23 x .10 x .12	Gold	.95	.85	.75
203895	ValuePro	923838DS	38	.23 x .10 x .12	Gold	.75	.65	.55
53532	ValuePro	923840DS	40	.23 x .10 x .12	Gold	.95	.85	.75
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold	.95	.85	.75
68574	ValuePro	923860DS	60	.23 x .10 x .12	Gold	.95	.85	.75
103406	ValuePro	70002X36SG	72	.23 x .10 x .12	Gold	1.09	.95	.85
2120284	OST	PH2-230/135-805	80	.23 x .10 x .12	Tin	.85	.69	.55
117197	ValuePro	923880DS	80	.23 x .10 x .12	Gold	1.25	1.09	.95

*Dimension "A" has gold plating; dimension "C" has tin plating

.100" (2.54mm) Straight Triple Row Male Headers ★ Web Code: FCC

• 24 pins are 3 rows of 8 pins (example)   ✳ Order in multiples of 10

Part No.	Mfr.	Cross Ref. No.	Pins	Size (A"xB"xC")	Plating	1	10	100
2178478	ValuePro	3131-30T	10	.16 x .06 x .12	Tin	✳	$.19	$.16
2076893	ValuePro	933824TS	24	.23 x .10 x .12	Gold	.29	.25	.19

molex® KK® Series .100" (2.54mm) Female Housings with Locking Ramp ★ Web Code: LBN

- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

Housing Material:
- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75℃
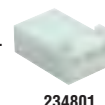
Housing with Locking Ramp

✳ Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
234704	22-01-2027	2	✳	$.09	$.07
234712	22-01-2037	3	✳	.17	.11
234721	22-01-2047	4	.25	.22	.19
234739	22-01-2057	5	.35	.29	.19
234747	22-01-2067	6	.39	.35	.25
234771	22-01-2107	10	.65	.55	.39

Housing w/ Locking Ramp & Polarizing Ribs

✳ Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
234798	22-01-3027	2	✳	$.15	$.09
234801	22-01-3037	3	.25	.22	.15
234819	22-01-3047	4	.35	.25	.19
234827	22-01-3057	5	.35	.25	.19
234835	22-01-3067	6	.49	.39	.29
234851	22-01-3087	8	.59	.55	.35
234878	22-01-3107	10	.65	.59	.45

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Interconnects

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

3 LEVELS OF SAVINGS — NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

molex® | AMP | JAMECO ValuePro — .100" (2.54mm) Straight and Right Angle Friction Lock Headers

Right Angle Friction Lock

Straight Friction Lock

879588

★ *Web Code: GBN*

.100" (2.54mm) Straight Friction Lock Headers ✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD")	Plating	1	10	100
232266	Molex	22-23-2021	2	.30 x .13 x .14 x .32	Tin .... ✴	$.15	.12
613931	AMP	640456-2	2	.30 x .10 x .14 x .31	Tin .... ✴	.15	.12
233584	Molex	22-11-2022	2	.30 x .13 x .14 x .32	Gold ...... .29	.25	.19
879588	Molex	22-29-2021	2	.30 x .13 x .14 x .46	Gold ...... .29	.25	.19
232274	Molex	22-23-2031	3	.30 x .13 x .14 x .32	Tin .... ✴	.19	.15
879271	Molex	22-27-2031	3	.30 x .13 x .14 x .46	Tin ...... .29	.25	.19
233592	Molex	22-11-2032	3	.30 x .13 x .14 x .32	Gold ...... .39	.35	.29
232282	Molex	22-23-2041	4	.30 x .13 x .14 x .32	Tin .... ✴	.19	.15
2189054	Adam Tech	LHT-04-TS	4	.30 x .10 x .13 x .31	Tin .... ✴	.15	.12
348074	Adam Tech	641215-4	4	.30 x .10 x .14 x .31	Gold ...... .29	.25	.19
232291	Molex	22-23-2051	5	.30 x .13 x .14 x .32	Tin .... ✴	.19	.15
348082	ValuePro	641215-5	5	.30 x .10 x .14 x .31	Gold ...... .35	.29	.25
232303	Molex	22-23-2061	6	.30 x .13 x .14 x .32	Tin .... .29	.25	.19
232320	Molex	22-23-2081	8	.30 x .13 x .14 x .32	Tin .... .35	.29	.25
232346	Molex	22-23-2101	10	.30 x .13 x .14 x .32	Tin .... .39	.35	.29

.100" (2.54mm) Right Angle Friction Lock Headers ✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD")	Plating	1	10	100
233437	Molex	22-05-3021	2	.26 x .13 x .14 x .32	Tin .... ✴	$.19	.15
233445	Molex	22-05-3031	3	.26 x .13 x .14 x .32	Tin .... .35	.29	.25
233453	Molex	22-05-3041	4	.26 x .13 x .14 x .32	Tin .... .39	.35	.29
233461	Molex	22-05-3051	5	.26 x .13 x .14 x .32	Tin .... .39	.35	.29
233470	Molex	22-05-3061	6	.26 x .13 x .14 x .32	Tin .... .45	.39	.35

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molex® KK® Series .100" (2.54mm) Crimp Terminals

★ *Web Code: JCT*

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 736501/234923/234931: brass; 736595/462969/463005: phosphor bronze

234931   462969   463005

Bulk Packaged — Order in multiples of 10

Part No.	Mfr. Part No.	Plating	10	100	1000
736501	08-50-0113	Tin*	$.05	$.04	$.03
234923	08-50-0114	Tin	.06	.05	.04
234931	08-55-0102	15µ" gold	.15	.12	.11
736595	08-52-0123	Tin	.09	.08	.07
462969	08-65-0805	Tin (cat ear)	.09	.08	.07
463005	08-65-0816	15µ" gold	.19	.15	.13

*Cut tape packaging

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molex® .100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housings

Single Row

- Housing: black glass filled polyester, UL94V-0

884301   884328

Version A, Non-polarized

★ *Web Code: VDD*

Part No.	Mfr. Part No.	Pos.	1	10	100
884301	50-57-9002	2	$.25	$.22	$.15

Version G, Positive Latch — Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	10	100
884328	50-57-9402	2	$.19	$.15

Female Crimp Terminals — Order in multiples of 10

741685

Part No.	Mfr. Part No.	AWG	Plating	10	100
741685	16-02-0103	22-24	15µ" gold ..	$.09	$.08
741677	16-02-0086	22-24	Tin	.07	.06

JAMECO ValuePro .118" (3.00mm) Micro-Fit Crimp Terminals — molex®

Female (Fig. 1)   **Male (Fig. 2)**

- Material: phosphor bronze, tin

★ *Web Code: UBW*

Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	AWG	10	100
337720	ValuePro	43030-0007	1	20-24	$.09	$.08
883093	Molex	43030-0007	1	20-24	.12	.09
337746	ValuePro	43030-0010	1	20-24	.15	.099
337762	ValuePro	43031-0007	2	20-24	.09	.08

Hand Tools for Mini-Fit Jr.™

★ *Web Code: GBU*

304928   304936

308030   227491

304928: Crimp tool wire range from 14-24 AWG, 8.5"L
304936: Extraction tool, 3.5"L
308030: Cuts & strips 14-24 AWG, 8.3"L
227491: Cuts & strips 18-30 AWG, 8.3"L

Part No.	Mfr.	Mfr. Part No.	1	5
304928	Molex	63811-1000	$49.95	$44.95
304936	Molex	11-03-0044	21.95	19.95
308030	GC/Waldom	W-HT-1919	14.95	13.95
227491	GC/Waldom	W-HT-1921	14.95	13.95

Tools for Micro-Fit Connectors

JAMECO ValuePro   ★ *Web Code: GBU*

338678   338669

Part No.	Cross Ref. No.	Description	Length	1	5
338678	HT-225D	Crimp	8.25"	$24.95	$22.49
338669	11-03-0043	Extraction	3.0"	14.95	13.49

★ *.156" Housings — Enter Web Code CRH*

JAMECO ValuePro .156" (3.96mm) JST Type Crimp Terminal and Tool

Crimp Terminal

★ *Web Code: HHT*

- 18-22 AWG
- Female
- Tin-plated brass

Order in multiples of 10

Part No.	Mfr.	Cross Ref. No.	10	100
2124630	ValuePro	96T	$.05	$.04

JST Crimp Tool

Part No.	Mfr.	Mfr. Part No.	1	5
227491	GC/Waldom	W-HT-1921	$14.95	$13.95

.165" (4.19mm) Mini-Fit Jr.™ Type Terminals — molex®

Male (1)

Female (2)

- A: Tin over nickel over brass
- B: 15µ" gold over nickel over brass

★ *Web Code: CBX*

Order in multiples of 10

Part No.	*Mfr.	Product No.	Type	AWG	10	100	1000
401824	JVP	4257T2-LP	1A	18-24	$.09	$.07	$.05
401701	JVP	4256T2-LP	2A	18-24	.09	.07	.05
401736	ADM	4256T2-15GC	2B	18-24	.19	.15	.12
304725	MOL	39-00-0041	1A	18-24	.12	.09	.07
304733	MOL	39-00-0039	2A	18-24	.07	.06	.05
304872	MOL	39-00-0047	2A	22-28	.12	.09	.07

4000-Piece Reel

Part No.	*Mfr.	Product No.	Type	AWG	Price/each
307993	MOL	39-00-0038	2A	18-24	$.03

*ADM = Adam Tech; JVP = Jameco ValuePro; MOL = Molex

★ *.165" Mini-Fit Jr. Connectors — Web Code MTC*

22 AWG SOLID HOOK-UP WIRE

36920

Color	25-foot	100-foot
Black	2152876	36792
Blue	2152884	36766
Green	2152892	36822
Red	2152905	36856
White	2153553	36881
Yellow	2152921	36920

Pricing	1	5	10	1	5	10
	$3.95	$3.59	$3.29	$7.95	$6.95	$5.95

Interconnects

.156" (3.96mm) Headers, Housings and Crimp Terminals

molex
AMP
JAMECO ValuePro

Fig. 1   Fig. 2

- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

★ **Web Code: HHT**

Headers

✳ Order in multiples of 10

Straight Friction Lock – Brass/Tin (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
879861	Molex	26-60-4020	2 ..... ✳		$.15	$.12
231546	AMP	640445-2	2		.12	.09
879887	Molex	26-60-4030	3 ..	.29	.25	.19
104792	ValuePro	LMH4	4	.29	.25	.19
879941	Molex	26-60-4060	6 ..	.29	.25	.19

Housings

With Locking Ramp (Fig. 2)

Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	10	100
104433	ValuePro	7900F-3	3	$.12	$.09
463435	Molex	09-50-3031	3	.19	.15
236161	AMP	640250-4	4	.09	.07
463443	Molex	09-50-3041	4	.19	.15
104716	ValuePro	7900F-4#	4	.15	.12
104732	ValuePro	7900F-6	6	.19	.15
104766	ValuePro	7900F-10#	10	.15	.12

Use with crimp pin 78319, below

Crimp Terminals

- Plating: **A:** brass/tin;
  B: phosphor bronze/tin

Order in multiples of 10

Part No.	Mfr.	Product No.	Plating	AWG	10	100
736544	Molex	08-50-0189	A	18-20	$.07	$.06
736561	Molex	08-52-0072	B	18-20 ..	.07	.06
736587	Molex	08-52-0113†*§	A	18-20 ..	.06	.05
78319	ValuePro	JS-5001-T§	A	18-24 ..	.05	.04
736481	Molex	08-50-0106	A	18-24 ..	.06	.05
248866	AMP	640706-1	A	18-24 ..	.19	.15
248874	AMP	640706-2	A	18-24 ..	.12	.09
248903	AMP	770522-1	B	18-24 ..	.15	.12

†Trifurcon   *Cat ear   § Cut tape

.100" (2.54mm) Straight Male Headers

JAMECO ValuePro

★ **Web Code: VAQ**

Double Row w/ Standard Latch

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, above right

71830

Part No.	Description	1	10	100
117664	10-pin male header	$.69	$.59	$.55
71830	20-pin male header	.99	.89	.79
71933	26-pin male header	1.09	.99	.89
72216	50-pin male header	1.65	1.49	1.35

.100" (2.54mm) Keyed Shrouded Headers & Connectors

JAMECO ValuePro

CD-ROM 4-Pin
- Low profile
- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation res.: 1000MΩ min.
- Pin material: tin-plated brass
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding volt.: 1000VAC/ 1 min.
- Recommend crimp tool P/N 99443, pg 127

152741
152726
152734

★ **Web Code: XAW**

✳ Order in multiples of 10

Part No.	Description	1	10	100
152741	Straight header	$.55	$.49	$.45
152726	Rt. angle header	.65	.59	.55
152734	Single with latch†	.55	.49	.45
181673	Female pins .... ✳		.07	.05

† P/N 152734 requires 4 pins (P/N 181673)

.100" (2.54mm) Female Header Receptacles
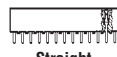
JAMECO ValuePro

NEW MARKED IN PINK

Right Angle   Straight

- Gold-plated contacts

★ **Web Code: RAH**

Single Row Right Angle (Side Entry)

Part No.	Mfr.	Contacts	1	10	100
2100321	ValuePro	8	$.49	$.45	$.39

Double Row Right Angle (Side Entry)

Part No.	Mfr.	Contacts	1	10	100
71159	ValuePro	20	$.99	$.89	$.79

Single Row Straight (Top Entry)

Part No.	Mfr.	Contacts	1	10	100
2169758	Adam Tech	4	$.49	$.45	$.39
2144614	Adam Tech*	6	.49	.45	.39
70755	ValuePro	8	.55	.45	.35
2144631	Adam Tech*	8	.55	.45	.35
2172560	ValuePro	10	.65	.55	.45
2177627	Adam Tech*	10	.79	.69	.59
200783	ValuePro	12	.75	.65	.55
2213641	Adam Tech	12	.89	.79	.69
308592	ValuePro	16	.89	.79	.65
2213659	Adam Tech	16	1.09	.99	.89
308567	ValuePro	20	.95	.85	.75
2213667	Adam Tech	20	1.19	1.09	.99
2168173	Adam Tech	40	.99	.89	.75

*15mm long square leads

Double Row Straight (Top Entry)

Part No.	Mfr.	Contacts	1	10	100
70721	ValuePro	16	$.95	$.85	$.75
70827	ValuePro	20	1.19	.99	.89
105057	ValuePro	30	1.25	1.09	.95
163862	ValuePro†	34	.99	.89	.79
111705	ValuePro	40	1.39	1.25	1.09
2134395	ValuePro#	40	1.25	.99	.85

†Tin-plated   #Wire wrap leads (.475" long)

BEST SELLING 12VDC FANS

2179454

Part No.	CFM	Size (mm)	Bearing	Price
2179454	2.57	25 x 25 x 10	Sleeve	$5.95
1708473	9.5	40 x 40 x 10	Vapo	5.95
2202845	10	40 x 40 x 20	Ball	9.95
2150766	23.2	60 x 60 x 25	Ball	7.95
2125835	39.8	80 x 80 x 25	Ball	3.95

.100" (2.54mm) Low Profile Male Shrouded Headers

JAMECO ValuePro

Straight & Right Angle Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, below

68180

★ **Web Code: JAH**

Part No.	Cross Ref. No.	Pos.	1	10	100
67812	7110-10SG	10	$.59	$.49	$.39
2100304	7110-14SG	14	.59	.49	.39
2167947	BHR-16-HUA	16	.35	.29	.25
68180	7110-16SG	16	.65	.55	.45
68292	7110-20SG	20	.65	.55	.45
68372	7110-26SG	26	.69	.59	.49
68583	7110-34SG	34	1.09	.89	.75
2167971	BHR-40-HUA	40	.49	.45	.39
181105	7110-40SG	40	1.45	1.19	.99
2100312	7110-50SG	50	1.25	1.09	.95

.100" (2.54mm) IDC Socket Connectors

JAMECO ValuePro

Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 55)
- Contact material: phosphor bronze w/ 1µ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimper P/N 73252, below
- Include strain relief

32564

★ **Web Code: QAE**

Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100
2203910	8000-6R	6	$.25	$.22	$.19
2203928	8000-8R	8	.29	.25	.19
32492	8000-10	10	.35	.29	.25
153948	8000-14	14	.39	.35	.29
119467	8000-16	16	.45	.39	.35
32522	8000-20	20	.49	.45	.39
32564	8000-26	26	.55	.49	.45
32644	8000-34	34	.59	.55	.49
32679	8000-40	40	.65	.59	.55
32708	8000-50	50	.69	.65	.59

Non-Polarized   ✳ Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
138376	8000-10NE	10	$.35	$.29	$.25
138325	8000-20NE	20	.35	.29	.25
138333	8000-26NE	26	.35	.29	.25
138341	8000-34NE	34	.45	.39	.35
138350	8000-40NE	40 .... ✳		.19	.15

IDC Connector Crimping Tools

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.

2156033

2156033: Dual slot attachment included

Part No.	Mfr. Part No.	1	10	25
73252	HT-214	$15.95	$14.39	$12.95
2156033	HT-214D	17.95	16.49	14.95

3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Interconnects

AMP / 3M .100" (2.54mm) IDC Ribbon Connectors

Center and Military Polarized Receptacles

- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Housing, cover: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating

Contact Plating:

A: 30µ" gold, 50µ" min. tin
B: 15µ" gold, 100µ"~200µ" tin
C: 15µ" gold, 100~200µ" tin lead, all over 50µ" min. nickel
D: 30µ" gold,100~200µ" bright tin lead, all over 50µ" nickel

525317 | **525376**

★ Web Code: RDM

1578111 | **526045**

Part No.	Mfr.	Mfr. Part No.	Pos.	Plating	1	10	100
901642	AMP	1658622-1	10	A	$1.49	$1.35	$1.19
525309	AMP	746285-1	10	C	1.25	1.09	.99
742215	AMP	1658621-1	10	B	1.09	.95	.85
1578082	3M	89110-0101	10	A	.99	.89	.79
525317	AMP	746285-2	14	C	1.49	1.25	.99
525325	AMP	746285-3	16	C	1.59	1.39	1.15
1578111	3M	89116-0101	16	A	.95	.85	.75
525333	AMP	746285-4	20	C	1.65	1.55	1.39
525413	AMP	746288-6	26	D	1.75	1.49	1.25
525350	AMP	746285-8	34	C	1.95	1.75	1.49
525368	AMP	746285-9	40	C	1.95	1.75	1.55
525376	AMP	1-746288-0	50	D	3.95	3.59	3.25

Strain Relief for NOVO Receptacles

Order in multiples of 10

Part No.	Mfr.	Mfr. Part No.	Pos.	10	100
526045	AMP	499252-5	10	$.25	$.22

ARIES DIP Headers

★ Web Code: XBS

Series 600 Headers w/ Coined Contacts

- Standard body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temperature: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads
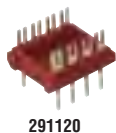
291120

Part No.	Mfr. Part No.	Pos.	Width*	1	10	100
291120	08-600-10	8	0.3"	$1.29	$1.15	$.99
291312	14-600-10	14	0.3"	1.49	1.39	1.29
291574	16-600-10	16	0.3"	1.79	1.65	1.45
291996	24-600-10	24	0.6"	1.75	1.49	1.25

*Center to center pin width

CA .100" DIP Header Plugs

★ Web Code: XBS

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

37331

Part No.	Mfr. Part No.	Pins	Width	1	10	100
37130	14P-2	14	0.3"	$1.09	$.99	$.89
37331	16P-2	16	0.3"	2.75	2.49	2.25

JAMECO ValuePro .100" (2.54mm) IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 45
- Plastic with gold-plated contacts
- Current rating: 1A
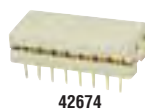
42674

★ Web Code: KEF

Part No.	Cross Ref.	Width	Contacts	1	10	100
42658	8200-14	0.3"	14	$.49	$.45	$.39
42674	8200-16	0.3"	16	.59	.55	.49
104097	8200-20	0.3"	20	.69	.59	.55
42691	8200-24	0.6"	24	.79	.69	.55
99670	8200-28	0.6"	28	.89	.79	.69
42712	8200-40	0.6"	40	.99	.89	.79

★ PCB Connectors — Enter Web Code EEN

CINCH Card Edge Connectors

.100" (2.54mm) Density Solder Tab/DIP Terminals

2203012

- Fits all PC boards
- Gold plated contacts

★ Web Code: XEE

Part No.	Positions	Terminal	1	10	100
2203021	36/72	DIP solder*	$8.95	$7.95	$6.95
2203039	40/80	DIP solder*	9.95	8.95	7.95
2203012	43/86	Solder tab	9.95	8.95	7.95
2133536	60/120	DIP solder*#	.95	.85	.75

*Without mounting ears #AMP/Tyco

.156" (3.96mm) Density Wire-Wrap Terminals

Part No.	Positions	Terminal	1	10	100
2203047	30/60	Wire wrap	$8.95	$7.95	$6.95

AMP AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

Single Row, Non-Polarized, Crimp Snap-In Housing (MOD IV)

- No PC with UMN
- Black thermoplastic, flame retardant

Part No.	Mfr. Part No.	Pos.	Width	1	10	100
526871	87499-3	2	0.205"	$1.25	$1.09	$.95

Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating:

527419

527419: 50µ" gold fash over nickel, 30µ" gold in contact area
527486: 15µ" gold in contact area, 100µ" – 200µ" bright tin lead, all over 50µ" nickel
895844: Short point; 22-26 AWG; 50µ" nickel entire area; 15µ" gold in contact area

527486

✳ Order in multiples of 10

Part No.	Mfr. Part No.	1	10	100
527419	1-87523-6	$.35	$.29	$.25
527486	87523-6	✳	.22	.19
895844	104480-3	✳	.12	.09

★ Gray Ribbon Cables — Enter Web Code WBX

★ Multicolor Ribbon Cables — Enter Web Code WCF

.100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins

JAMECO ValuePro

103191 | **103254** | **100766** | **145358**

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 55)
- Current rating: 1A • Housing material: plastic
- Pin material: brass/tin plated • 26-22 AWG
- Temp. rating: -55°C to +105°C
- Use crimper P/N 159266, pg 127

★ Web Code: YAL

Single Row

✳ Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
100812	SCH2	2	✳	$.19	$.15
157383	SCH3	3	.35	.29	.25
100803	SCH4	4	.35	.29	.25
163686	SCH5	5	.39	.35	.29
103212	SCH6	6	.45	.39	.35
103203	SCH8	8	.49	.45	.39
103191	SCH10	10	.55	.49	.45
103182	SCH20	20	.59	.55	.49
103158	SCH36	36	.65	.59	.55

Double Row

★ Web Code: ZBQ

Part No.	Cross Ref. No.	Contacts	1	10	100
103254	DCH8	8	$.49	$.45	$.39
157421	DCH10	10	.55	.49	.45
157438	DCH14	14	.45	.39	.35
103238	DCH16	16	.55	.49	.45
103230	DCH20	20	.59	.55	.49

Crimp Pins for Single/Double Row Housings

• Order in multiples of 10

★ Web Code: XAL

Part No.	Cross Ref. No.	Description	10	100	500
100766	FCH1	Female pin	$.19	$.15	$.12
145358	MCH1	Male pin	.19	.15	.12

CINCH Jones Plugs and Sockets

Series 300 Multiple-Density Solder-Eyelet Connectors

248823

- Insulation material: molded monoblock, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Current rating: 10 amps
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic
- 2 position is round

248786

★ Web Code: WBP

Sockets with Hood and 180˚ Clamp

Part No.	Mfr. Part No.	Contacts	1	10
248807	S-302H-CCT	2	$3.95	$3.75
248823	S-304H-CCT	4	3.95	3.65
248831	S-306H-CCT	6	5.95	5.49

Plugs with Hood and 180˚ Clamp

Part No.	Mfr. Part No.	Contacts	1	10
248760	P-302H-CCT	2	$3.35	$2.95
248786	P-304H-CCT	4	4.25	3.95
248794	P-306H-CCT	6	4.49	4.25

BEST SELLING MOTORS

2192755

Part No.	Voltage	Current	RPM	Price
2158434	1-6VDC	0.45A	4787	$2.25
2192755	1.5-3VDC	0.66A	6990	3.49
256314	3V (vibrating)	75mA	8500	3.25
232022	6-18VDC	0.7A	9820	3.49
2192421	24VDC	1.05A	9346	4.95

Interconnects

Mini DIN & DIN Panel Mount Female Sockets

- With solder lugs
- Metal body

★ **Web Code: FAB**

Part No.	Cross Ref.	Description	1	10	100
2205510	MDPM4	4-pin mini DIN	$1.19	$.95	$.85
2076762	MDPM6	6-pin mini DIN	1.39	1.25	.99
2205501	57HB5F*	5-pin DIN	3.49	2.95	2.59
15844	DINJ5	5-pin DIN	.99	.79	.69
15852	DINJ6	6-pin DIN	1.15	.95	.85
15861	DINJ8	8-pin DIN	1.29	.99	.89

*Manufacturer: Switchcraft

Mini-DIN & DIN PC Mount Female Sockets

- Set back: 0.5"
- **29399:** Plastic body
- **119475:** Plastic/metal body

★ **Web Code: DMS**

Unshielded (DIN) – Right Angle

✷ Order in multiples of 10

Part No.	Product No.	Description	1	10	100
2178531	RD4	4-pin DIN	$.39	$.32	$.27
29399	RD5	5-pin DIN	.75	.65	.49

Shielded (Mini DIN) – Right Angle

Part No.	Product No.	Description	1	10	100
140791	MDR4S	4-pin mini DIN	$.39	$.35	$.29
2211004	MPJ-4P-S	4-pin mini DIN	1.95	1.75	1.49
2076720	MDR5S	5-pin mini DIN ... ✷	.05	.04	
119475	MDR6S	6-pin mini DIN	.89	.79	.69
207722	MDR8S	8-pin mini DIN	.39	.29	.19

DIN Connector Cable

★ **Web Code: HAE**

The sockets need to fit with the right cables. Check out all the available DIN cables on page 146.

Part No.	Description	1	10	100
174772	6', 6-pin mini DIN male to male	$2.95	$2.49	$1.95

For complete selection of Computer Cables, see page 146

ADAM TECH   Displayport Receptacles

Displayport receptacles are royalty free products that can be used in any application where an HDMI connection was previously required.
- 15µ gold plating

★ **Web Code: DPP**

Part No.	Mfr. Part No.	Description	Type	Mounting Style	1	10	100
2114212	DPC-F-S-RA-SMT-P-15	Displayport, receptacle, right angle	SMT	Surface mount ..	$1.49	$1.35	$1.19
2114247	MDPC-S-RA	Mini displayport, receptacle, right angle	DIP	Through hole	2.25	1.95	1.75

ADAM TECH   USB-A & B 1.0 & 2.0 Female Connectors

★ **Web Code: DAZ**

Part No.	Mfr.	Product No.	Description	1	10	100
2096181	Adamtech	USB-A-S-RA	USB-A, right angle	$.49	$.45	$.39
2097011	Adamtech	USB-A-S-VT	USB-A, vertical	.49	.45	.39
161024	ValuePro	1040	USB-A 1.0	.99	.89	.79
2076551	KobiConn	UAR64-8W2100	USB-A 2.0, dual port	.75	.69	.39
2096261	Adamtech	MUSB-B5-S-RA-SMT	Mini USB-B, right angle, surface mount	.99	.89	.79
2096245	Adamtech	USB-B-S-RA	USB-B, right angle	.39	.35	.29
230958	ValuePro	USB-B-S-RA-WT	USB-A 2.0, right angle, white insulator	1.09	.99	.89

Mini-DIN & DIN Plugs and Receptacles

- Solder barrels w/ strain relief
- See pg 44 for cable

★ **Web Code: DAV**

Part No.	Pins	Type	1	10	100
142280	4	Mini DIN plug	$.89	$.79	$.69
142262	6	Mini DIN plug	.95	.85	.75
111878	8	Mini DIN plug	.99	.89	.75
2205616	5	DIN plug†	12.95	11.95	10.95
15879	5	DIN plug	.59	.49	.39
180873	5	DIN receptacle	.89	.79	.69
15887	6	DIN plug	.79	.65	.59
2178638	6	DIN plug*	3.95	3.59	3.29
15895	6	DIN plug	.75	.59	.55

*Nickel plated diecast handle (Switchcraft)   † Locking

AMP   Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.
- Material: thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)

★ **Web Code: OLI**

Part No.	Mfr. P/N	Material	Shell Size	Cable O.D.(max.)	1	10
494039	206062-1	Plastic	11	.329" ...	$3.95	$3.49
494055	206966-1	Plastic	13	.453"	3.95	3.49
494063	206070-1	Plastic	17	.453"	3.95	3.49

AMP   CPC Contacts

Type III+ Snap-In Crimp Pins with Retention Spring

★ **Web Code: LEF**

Socket with Insulation Support   Socket without Insulation Support

Pin   Socket

- Finish:
  - **A:** 30µ" gold over nickel
  - **B:** 15µ" gold over nickel
  - **C:** Tin-lead
- Crimp type except *P/N 526424 (solder type)
- Contact body – brass or phosphor bronze

Part No.	Mfr. P/N	AWG	Finish	Type	1	10
526441	1-66361-1	18-14	A	Pin	$.85	$.75
526424	66180-1	18-16	A	Pin*	.99	.89
526432	66181-1	18-16	A	Socket	1.25	1.09
526459	66103-3	24-20	B	Pin	.59	.49
526563	1-66103-5	24-20	C	Pin	.39	.35
526361	1-66103-7	24-20	A	Pin	.69	.59
526379	66105-3	24-20	B	Socket ...	.59	.55
526504	1-66105-6	24-20	C	Socket ...	.55	.49

Size 20DF Contacts

A: 30µ" gold over nickel; **B:** gold flash over nickel
- Contact body: brass

Order in multiples of 10

Part No.	Mfr. P/N	AWG	Finish	Type	10	100
223221	1-66505-0	28-24	B	Socket†	$.15	$.12
223247	745253-6	26-22	A	Socket† ··	.15	.12
223298	66504-9	24-20	A	Socket ...	.19	.15
223255	1-66504-0	24-20	B	Socket ...	.19	.15

† With insulation support

AMP   CPC Circular Plastic Connectors

Series 1 — Standard density, signal and low-current applications
- Accepts type III+, high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)

★ **Web Code: WBK**

Receptacles – Panel Mount

Part No.	Mfr. P/N	Size/Pos.	Gender	Mating Connector	1	10
495218	206430-1	11-4	Reverse	495091	$3.19	$2.89
495162	206061-1	11-4	Standard	495082	3.19	2.89
495293	211401-1	13-7	Standard	421374	5.95	5.49
495234	206705-1	13-9	Standard	495103	3.19	2.89
495146	206043-1	17-14	Reverse	495031.................................	3.19	2.89
421382	206036-1	17-16	Standard	495322	3.19	2.89

Plugs – Free Hanging

Part No.	Mfr. P/N	Size/Pos.	Gender	Mating Connector	1	10
495091	206429-1	11-4	Reverse	495218, 839501, 495226 ...	$3.49	$3.25
495082	206060-1	11-4	Standard	495162, 839324, 495197	3.49	3.25
421374	211399-1	13-7	Standard	495293	4.95	4.49
495103	206708-1	13-9	Standard	919447, 495234, 495242	3.95	3.59
495031	206044-1	17-14	Reverse	750311, 495146, 495154........	3.95	3.59
495322	206037-1	17-16	Standard	421382, 495314....................	3.95	3.59
495066	206150-1	23-37	Standard	495189, 495171	4.95	4.49

*For additional products, availability and specifications visit *Jameco.com* and enter the Web Code in the product search box

Interconnects

Amphenol Connex **AMP** **Jameco ValuePro** **50Ω/75Ω BNC Connectors and Adapters**

Additional Amphenol 31 Series Plugs, Jacks and Adapters visit Jameco.com and use Web Code

Plugs

★ *Web Code: BCP*

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
223394	Amphenol RF	31-12	1	50Ω plug, clamp, for RG-59/62/71/140/210 (UG-260/U)	$1.95	$1.75	$1.49
71482	Steren	200-145	2	50Ω plug, 3 pcs, crimp, for RG-58	1.75	1.55	1.39
188306	Amphenol RF	31-320-RFX	2	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A	1.49	1.39	1.29
2185694	Amphenol RF	31-321-1002	2	50Ω plug, 3 pcs, crimp	.99	.89	.75
2161246	ValuePro	B-111L-R-NGD	2	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U	1.25	1.09	.95
2183664	Amphenol RF	31-325	2	50Ω plug, 3 pcs, crimp	4.49	3.95	3.49
71271	Steren	200-143	2	75Ω plug, 3 pcs, crimp, for RG-59	1.25	1.09	.99
2205448	Amphenol RF	31-71032	2	75Ω plug, 3 pcs, crimp, for RG-59, double braided	3.25	2.95	2.75
2085052	Amphenol RF	31-71013	3	75Ω plug, 4 pcs, crimp, for RG-179/187	2.95	2.59	2.25
112110	ValuePro	G7409	3	50Ω male with pin and ferrule, for RG-174, 4 pcs.	1.75	1.49	1.25
188357	Amphenol RF	31-242-RFX	3	50Ω plug, 4 pcs, crimp, for RG-179/187	1.95	1.75	1.49
2084990	Amphenol RF	31-242	3	50Ω plug, 5 pcs, crimp, for RG-179/187	2.95	2.59	2.29
71781	Steren	200-142	4	75Ω plug, twist-on, for RG-59	1.09	.99	.89
2185678	Amphenol RF	9350	5	50Ω plug, 6 pcs, crimp, for RG-6	2.95	2.59	2.29

Jacks

★ *Web Code: BCJ*

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
174290	ValuePro	TBC-090	6	Jack, chassis mount	$1.49	$1.25	$1.09
355178	ValuePro	31-221	7	50Ω jack, panel mount, solder cup (UG-1094/U) [1]	2.25	1.95	1.75
223511	Amphenol RF	31-221	8	50Ω jack, panel mount, solder cup [1]	3.09	2.89	2.65
2161297	ValuePro	B-235-1-R	9	50Ω bulkhead jack, solder terminal	1.49	1.25	1.09
658427	Amphenol Connex	112424	10	50Ω bulkhead jack, solder cup [1]	2.49	2.25	1.95
2161262	ValuePro	B-235-R	10	50Ω bulkhead jack, isolated, solder terminal [1]	1.75	1.49	1.25
296067	Amphenol Connex	112431	9	50Ω bulkhead jack, isolated, solder terminal	4.95	4.49	3.95
493917	AMP	227161-3	11	50Ω jack, right angle, PCB [2]	1.95	1.75	1.49
421331	AMP	227726-3	12	50Ω jack, isolated, solder	2.75	2.49	2.25
111561	Steren	200-148	13	50Ω jack, isolated, panel mount [1]	2.49	2.25	1.95
223360	Amphenol RF	31-5	14	50Ω jack, 6 pcs, RG-55/141/142/223/400	4.95	4.49	3.95
2185731	Amphenol RF	31-347	15	50Ω jack, 6 pcs, straight, bulkhead	1.95	1.75	1.49
2185723	Amphenol RF	UG-909B/U	15	50Ω jack, 8 pcs, straight, panel mount	2.95	2.59	2.29
160929	ValuePro	B211F-58	16	Jack, 3 pcs, crimp type, for RG-58	1.49	1.25	1.09
2205190	ValuePro	WJ-7022-M-A	16	Jack, 3 pcs, crimp type, for RG-58/U/141	3.95	3.49	2.95
2185820	Amphenol RF	31-332	16	50Ω jack, 3 pcs, crimp	2.95	2.59	2.25
2077618	ValuePro	BNC-CR	17	75Ω jack, chassis PCB receptacle	1.49	1.25	1.09
2185715	Amphenol RF	31-5486	18	50Ω jack, right angle, PC mount, valox w/ washer	1.95	1.75	1.49
146511	ValuePro	CH-7044S	18	75Ω jack, right angle, plastic, PC mount, w/ washer & nut [2]	2.49	2.25	1.95
2135646	Bomar	SPX44202	19	Jack, straight, PC mount (gold)	.49	.39	.35
161656	ValuePro	CH-7087D	20	75Ω jack, right angle, metal, PC mount	1.59	1.39	1.25
71590	ValuePro	G1B235	21	Jack, panel mount (UG-1094A) [1]	1.95	1.75	1.49
1952821	Foxconn	KDA1001-H0	22	Jack, right angle, plastic insulation, PC mount [2]	.75	.65	.55

Additional Panel Mounting Hardware: P/N 2186030 ([1]) (2 nuts, 1 washer) and P/N 2186021 ([2]) (2 nuts, 1 washer), see pg 79

Adapters/Couplers

★ *Web Code: BCC*

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
127343	ValuePro	B-311	23	50Ω male/male coupler (UG-491B/U)	$2.75	$2.49	$2.25
363961	Steren	31-218	23	50Ω straight adapter, plug-plug (UG-491A/U)	2.49	2.25	2.09
355152	ValuePro	31-219-RFX	24	50Ω straight adapter, jack-jack (UG-914/U)	2.95	2.65	2.39
311351	ValuePro	31-220N-RFX	25	50Ω bulkhead adapter, jack-jack [2]	2.49	2.25	2.09
72629	Steren	200-150	26	50Ω female to female/female T-adapter	2.25	1.95	1.75
118594	Steren	200-155	27	50Ω male to female/female T-adapter	2.19	1.95	1.75
188429	Amphenol RF	31-208-RFX	27	50Ω male to female/female T-adapter	2.95	2.59	2.25
71909	Steren	200-160	28	Female/female coupler (UG-914)	1.49	1.25	1.09
148224	Steren	200-165	29	50Ω coupler, jack-jack, panel mount w/ washer & nut [2]	1.25	1.09	.95
148232	ValuePro	31-4803-RFX	29	50Ω coupler, jack-jack, isolated, w/ washer & nut [2]	2.95	2.65	2.39
100597	ValuePro	40958-Y	30	50Ω male to female/female T-adapter (180°)	6.95	6.25	5.49
658451	Amphenol Connex	112437	31	50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables)	3.49	3.25	3.09
117461	ValuePro	B-068	32	75Ω male to female/female F-adapter (90°)	3.49	3.25	2.95
127352	ValuePro	B-412	33	50Ω male to female right angle (DG-306B/O)	3.95	3.25	2.49
2085204	Amphenol RF	82-5590	34	Receptacle, twinaxial solder cup, front-mounted	1.95	1.75	1.49

Additional Panel Mounting Hardware: P/N 2186021 ([2]) (2 nuts, 1 washer), see pg 79

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Fig. 17

Fig. 18

Fig. 19

Fig. 20

Fig. 21

Fig. 22

Fig. 23

Fig. 24

Fig. 25

Fig. 26

Fig. 27

Fig. 28

Fig. 29

Fig. 30

Fig. 31

Fig. 32

Fig. 33

Fig. 34

BNC Terminators

Amphenol Connex · JAMECO ValuePro · **NEW** MARKED IN PINK · ★ *Web Code: BCT*

Part No.	Manufacturer	Product No.	Description	1	10	EM
71458	ValuePro	B-611T	50Ω BNC male terminator	$1.49	$1.25	$1.19
658523	Amphenol Connex	202103	50Ω terminator plug	2.49	2.25	2.09
2185993	Amphenol RF	MX554A/U	50Ω BNC straight terminator with cap and chain	1.95	1.75	1.49
2084341	Amphenol RF	4700-51	51Ω BNC terminator with cap and chain	1.49	1.25	1.09

71458 658523 2185993 2084341

BNC, RCA & SMA RF Adapters

JAMECO ValuePro · ★ *Web Code: RFS*

Part No.	Manufacturer	Product No.	Description	1	10	50
153454	ValuePro	SB-321	SMA female to BNC male	$2.75	$2.49	$2.25
159469	ValuePro	CH-7830-N	SMA female to BNC female	3.25	2.95	2.59
153593	ValuePro	4288	SMA male to BNC male	3.25	2.95	2.65
159477	ValuePro	CH-7820-N	SMA male to BNC female	4.25	3.95	3.55
2185985	Amphenol Connex	95625	SMA female to BNC male, right angle, 3 pcs.	1.95	1.75	1.49
207168	ValuePro	BJ-7072	RCA female to BNC female	1.49	1.25	1.19
114789	ValuePro	BR312	RCA female to BNC male	1.89	1.65	1.49
207176	ValuePro	BJ-7055	RCA male to BNC male	1.75	1.49	1.25
114753	ValuePro	RB312	RCA male to BNC female	1.89	1.65	1.49
114770	Steren	200-108	BNC female to F connector male	1.49	1.25	1.09
174255	Steren	TBC-176	BNC male to F connector female	1.75	1.49	1.25
2205966	Gabotronics	TOL129C3P	BNC female to 3.5mm male	2.95	2.69	2.49

153454 159469 153593 159477 2185985 207168 114789 207176 114753 114770 174255 2205966

75Ω "F" Connectors & Adapters

STEREN · ★ *Web Code: FCA*

Part No.	Manufacturer	Product No.	Description	1	10	50
295371	Steren	200-053*	F-jack jack adapter (nickel)	$.49	$.45	$.39
295380	Steren	200-107*	F-right angle jack to plug (nickel)	1.49	1.25	1.19
289887	Steren	200-035	F-crimp on for RG-6, nickel plated	.59	.49	.39

* Additional panel mounting hardware (2 nuts, 1 washer) P/N 2182611, see pg 79

295371 295380 289887

50Ω SMA/SMB Connectors

Amphenol Connex · **NEW** MARKED IN PINK · ★ *Web Code: SGX*

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
2178304	ValuePro	SS-A111F-RNGT†	1	Straight crimp type male plug (RG-58), 3 pcs.	Nickel ..	$1.75	$1.49	$1.25
157972	ValuePro	19-03F-4TGG	1	Straight crimp type male plug (RG-58), 3 pcs.	Gold	2.25	2.09	1.89
153366	ValuePro	4804	2	Straight crimp type male plug (RG-174), 3 pcs.	Gold	3.25	2.95	2.65
2185934	Amphenol Connex	31-5187	11	Straight crimp type male plug, 4 pcs., SMB	Nickel	3.49	2.95	2.49
145382	ValuePro	19-46G	3	Straight female PCB mount, 4 legs	Gold	2.95	2.65	2.39
145374	ValuePro	19-49G	4	90˚ female PCB mount, 4 legs	Gold	3.25	2.95	2.65
2217060	ValuePro	S-P225-RNGT	5	Jack, right angle, PC mount	Nickel	2.95	2.75	2.49
355283	ValuePro	901-143-6-RFX	6	Jack, right angle, PC mount	Gold	4.25	3.95	3.75
159531	ValuePro	CH-7814#	7	Female panel mount, 4 mounting holes (G-58/174)	Gold	3.95	3.59	3.25
160013	ValuePro	CH-7818-N√	8	Panel mount feed thru, female-female	Nickel	4.95	4.25	3.75
153286	ValuePro	SMA-7813	9	Bulkhead solder female w/ washer, rear mount (RG-58/174)	Gold	3.49	3.19	2.89

† Reverse polarity   # Solder cup   √ Additional panel mounting hardware (2 nuts, 1 washer) P/N 2182611, see pg 79

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9
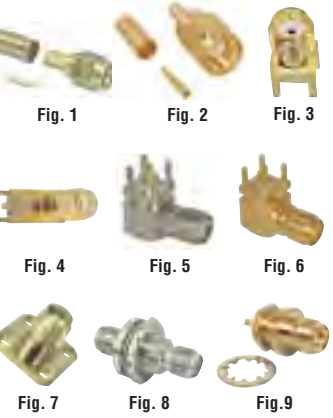
SMA Adapters and Couplers

Amphenol Connex · ★ *Web Code: SGX*

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
659041	Amphenol Connex	132169	10	50Ω jack-to-jack adapter	Gold ...	$5.49	$4.95	$4.45
2161300	ValuePro	S-322-H-R	12	50Ω jack-to-jack adapter, bulkhead feed-through	Gold	3.49	2.95	2.65
659059	Amphenol Connex	132170	12	50Ω jack-to-jack adapter, bulkhead feed-through	Gold	6.95	6.59	5.95
161294	ValuePro	S-311-G	13	Straight coupler male-male	Gold	3.49	3.25	2.95
161307	ValuePro	S-412-G	14	Right angle coupler male-female	Gold	5.95	5.49	4.95
153294	ValuePro	SMA-7817	15	Straight coupler female – jack-to-jack	Gold	3.95	3.59	3.19

Fig. 10 Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15

★ *SMB Connectors — Enter Web Code SCS*

Universal Hand Crimp Tool for RG-58 and RG-59 Connectors

JAMECO BenchPro · ★ *Web Code: GBU*

Part No.	Cross Ref.	Description	Die Cavities (in.)	Ferrule	1	5
261745	DL-806A	Center conductor crimp tool on BNC and TNC	0.255/0.213/0.068	3/8"	$16.95	$15.95

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Interconnects

3 LEVELS OF SAVINGS
NAME BRANDS · HOUSE BRANDS · SPECIAL BUY

Coax Cables & Terminal Blocks

SMA/SMB 50Ω Coax Cables

JAMECO ValuePro

Fig. 1 Fig. 2 Fig. 3 Fig. 4

★ Web Code: BZM

Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male
Fig. 3: SMA right angle male to SMA right angle male
Fig. 4: SMB plug female to SMB plug female

Part No.	Cable	Fig.	Lgth (ft.)	1	10	100
159397	RG-58	1	6	$5.95	$5.49	$4.95
169801	RG-174	1	0.5	3.19	2.75	2.49
163855	RG-174	1	1	3.95	3.59	3.25
153382	RG-174	1	2	4.95	4.49	3.95
153391	RG-174	1	4	5.95	5.49	4.95
159451	RG-174	1	6	6.95	6.25	5.59
175135	RG-174	2	1	4.25	3.95	3.65
175143	RG-174	3	0.5	3.75	3.49	3.19
175152	RG-174	3	1	4.95	4.49	3.95
175178	RG-174	4	1	4.95	4.49	3.95

BNC Male Coax Cables

JAMECO ValuePro

★ Web Code: BBD

Fig. 1 Fig. 2

RG58/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref.	Fig.	Length	1	10	50
181308	CRG58-1RR	1	1'	$3.55	$3.19	$2.89
102315	CRG58-1	2	1.5'	3.95	3.55	3.19
256743	CBB-224-24	2	2'	4.25	3.95	3.59
11404	CRG58-3*	2	3'	4.49	4.19	3.75
102331	CRG58-6*	2	6'	4.75	4.35	3.95
180822	CRG58-10	2	10'	4.95	4.59	4.09
102350	CRG58-12	2	12'	5.35	4.85	4.35
169818	CRG58-15	2	15'	5.65	5.19	4.49
102357	CRG58-25*	2	25'	5.95	5.39	4.89
102365	CRG58-50*	2	50'	7.95	6.95	6.25
102381	CRG58-100*	2	100'	9.95	8.95	7.95

*Manufacturer: Steren

RG6 75Ω Cables

Part No.	Cross Ref.	Fig.	Length	1	10	50
176794	RG6-3	2	3'	$4.49	$3.95	$3.59
176815	RG6-6	2	6'	4.95	4.49	3.95

RG59/U 75Ω CATV & Video Patch Cord

Part No.	Cross Ref.	Fig.	Length	1	10	50
85543	CRG59-6	2	6'	$5.95	$5.49	$4.95

RG174/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref.	Fig.	Length	1	10	50
111473	RG174U3	2	3'	$5.49	$4.95	$4.49
111482	RG174U6	2	6'	6.95	6.25	5.49

EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise

169755: Y-type

169747   169755

Part No.	Color	AWG	Conductors	1	10	100
169747	Yellow	22–26	2	$.25	$.22	$.15
169755	Red	19–26	3Y	.29	.25	.19

CINCH ADAM TECH Standard Double Row Barrier Terminal Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating

★ Web Code: YBM

230990

140 Series 15A (5-40 x 3/16" BH screws)
- 3750-watts/terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H

Part No.	Mfr. P/N	Pos.	Length	1	10	100
2172682	TDA-02*	2	1.42"	$.99	$.89	$.79
230973	2-140	2	1.41"	1.65	1.49	1.35
2173757	TDA-03*	3	1.79"	.99	.89	.75
230981	3-140	3	1.78"	1.49	1.25	1.09
2173765	TDA-04*	4	2.17"	1.25	1.09	.99
230990	4-140	4	2.16"	1.95	1.85	1.75
2173773	TDA-06*	6	2.91"	1.99	1.75	1.59
231010	6-140	6	2.91"	2.39	2.29	2.15
2173781	TDA-08*	8	3.66"	2.25	1.95	1.75
231036	8-140	8	3.66"	2.89	2.75	2.49
231052	10-140	10	4.41"	4.49	4.25	3.95
231061	12-140	12	5.16"	3.75	3.49	3.25
1775983	14-140	14	5.91"	4.49	4.49	3.95

*Manufacturer: Adam Tech

141 Series 20A (6-32 x 1/4" BH screws)
- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H

2100021

Part No.	Mfr. P/N	Pos.	Length	1	10	100
2100021	3-141*	3	1.78"	$1.25	$1.19	$1.09
231378	4-141	4	2.50"	1.95	1.75	1.49
231394	6-141	6	3.38"	3.25	3.19	2.95
231415	8-141	8	4.25"	3.49	3.25	3.19
231431	10-141	10	5.13"	3.75	3.49	3.25

*Manufacturer: Jameco ValuePro

142 Series 30A (8-32 x 5/16" BH screws)
- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312"W x 0.625"H

Part No.	Mfr. P/N	Pos.	Length	1	10	100
440891	42	8	5.47"	$5.49	$5.25	$4.95

Terminal Block Jumpers
For connecting between adjacent terminals or alternate terminals.
- 2-position • Brass w/ nickel plating

659382

Part No.	Mfr. Part No.		1	10	100
659382	140J-1 (140 series)		$.35	$.29	$.25
448500	141J (141 series)		.39	.35	.29

molex BEAU Barrier Terminal Blocks

.375" Double Row Low Profile
- Wire AWG range: 12–24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 BH screws, steel, zinc chromate plate

659411

★ Web Code: YBM

Part No.	Mfr. Part No.	Beau No.	Pos.	1	10	100
2125940	38770-0103	77003	3	$.95	$.75	$.65
659411	38770-0104	77004	4	2.75	2.49	2.25
659454	38770-0108	77008	8	3.49	3.19	2.75
659489	38770-0112	77012	12	3.95	3.75	3.49

European Terminal Blocks

JAMECO ValuePro

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed, PA8 (M2.6), PA10, ES08, ES10 (M3.0), PA12 (3.5)

215011

★ Web Code: CBJ

Part No.	Product No.	Amps	AWG	1	10	100
2120161	ES0800/12DS*	10	16-22	$1.49	$1.25	$1.09
2120170	ES1000/12DS*	20	16-20	1.95	1.75	1.49
215011	PA8HDS†	20	12-22	1.75	1.59	1.39
215029	PA10HDS†	30	10-22	2.39	2.25	1.95
215037	PA12HDS†	35	10-22	2.95	2.75	2.49

*300V, Mfr.: On-Shore Technology   † 450V

Metric Tri-Barrier Single Row Terminal Blocks

JAMECO ValuePro

- Off center PC mount • Brass, tin-plated terminals
- Steel, nickel-plated screws • UI/CSA recognized

DT39 Series
- Current rating: 20A @ 300V
- Wire gauge range: 12-22 AWG
- M3 screw size
- Pitch: 8.25mm
- Height: 12.7mm

★ Web Code: YBT

DT39 Series

HB95 Series
- Current rating: 10A @ 250V
- Wire gauge range: 14-22 AWG
- M3.5 screw size • Pitch: 9.5mm
- Height: 14.3mm

HB95 Series

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
2133616	DT39-B01W-06	6	50.6	$.49	$.39	$.29
2133624	DT39-B01W-08	8	67.2	.75	.65	.55
2162628	HB951-08P	8	77.5	.75	.65	.55

Metric Double Row Terminal Blocks

JAMECO ValuePro

- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- 12-18 AWG

★ Web Code: YBT

207572

10A @ 600V
- Screw size: M3.0 • Size: 19.5mm W x 11.9mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
208857	GGE-10-4P	4	55	$.99	$.89	$.79
208865	GGE-10-6P	6	74	1.49	1.35	1.19
208900	GGE-10-10P	10	112	2.35	2.09	1.89
208882	GGE-10-12P	12	131	2.49	2.25	2.09

20A @ 600V
- Screw size: M3.5 • Size: 22.0mm W x 13.2mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
207547	GGE-20-6P	6	85.3	$1.59	$1.35	$1.19
207572	GGE-20-12P	12	150.7	2.95	2.75	2.49

Wire Connectors

JAMECO ValuePro

- UL approved nylon 66, 94V2
- Strip wire before application
- Twist on type

182511

140717

182450: UL/CSA approved
140717: PE – metal inside

182450

Order in multiples of 10

Part No.	Description	10	100	1000
140717	Wire IDC 22-18 AWG	$.15	$.12	$.09
182511	Wire nut 16 AWG	.12	.09	.07
182450	Crimp 16-14 AWG*	.19	.15	.12

*Requires crimping tool (P/N 72996, pg 64)

Interconnects

0.138" (3.5mm) to 0.200" (5.08mm) Terminal Blocks

Part No.	Mfr.	Mfr. Part No.	Fig.	Term.	Terminal Spacing	Description	1	10	100
2094506	OST	OSTTE020161	1	2	0.138"/3.5mm	Top screw	$.39	$.35	$.29
2094522	OST	OSTTF020161	2	2	0.138"/3.5mm	Side screw	.45	.39	.35
2094514	OST	OSTTE030161	1	3	0.138"/3.5mm	Top screw	.49	.45	.39
2124411	OST	OSTTE040161	1	4	0.138"/3.5mm	Top screw	.55	.49	.45
2094565	OST	OSTTJ0231530	4	2	0.150"/3.81mm	R/A screw	.59	.55	.49
2094485	OST	OSTTA020161	5	2	0.197"/5.0mm	Top screw	.39	.35	.29
160785	Dinkle	EK500V-02P	6	2	0.197"/5.0mm	Top screw	.65	.59	.49
164794	OST	OSTTH020160	3	2	0.197"/5.0mm	Top screw	.55	.45	.39
99427	Dinkle	128V2P-R	7	2	0.197"/5.0mm	Top screw	.85	.65	.55
189676	OST	OSTTC020162	8	2	0.197"/5.0mm	Top screw	.45	.35	.29
161067	Dinkle	EK500A-02P	9	2	0.197"/5.0mm	45° angle screw	.89	.79	.59
2159656	Phoenix	SMKDSN1.5/2	14	2	0.197"/5.0mm	55° angle screw	.49	.39	.29
2094493	OST	OSTTA030161	5	3	0.197"/5.0mm	Top screw	.49	.45	.39
189668	OST	OSTTC030162	10	3	0.197"/5.0mm	Top screw	.39	.35	.29
99398	Dinkle	DT128V3P	7	3	0.197"/5.0mm	Top screw	1.09	.99	.89
160793	Dinkle	EK500V-03P	6	3	0.197"/5.0mm	Top screw	1.09	.99	.89
164806	OST	OSTTH030160	3	3	0.197"/5.0mm	Top screw	.85	.79	.69
161059	Dinkle	EK500A-03P	9	3	0.197"/5.0mm	45° angle screw	1.25	1.09	.95
2124429	OST	OSTTA040161	5	4	0.197"/5.0mm	Top screw	.65	.59	.55
2124470	OST	DT128V4P-R	7	4	0.197"/5.0mm	Top screw	.75	.65	.55
164815	OST	OSTOP240000	13	24	0.197"/5.0mm	1.3 x 1.3mm	1.35	1.19	1.05
2120567	OST	OSTYC022150	6	2	0.200"/5.08mm	Top screw	.49	.45	.39
2120647	OST	OSTTC022162	1	2	0.200"/5.08mm	Top screw	.35	.29	.25
2094581	OST	OSTTJ025153	11	2	0.200"/5.08mm	Top screw	.69	.65	.59
152347	OST	OSTTA024163	12	2	0.200"/5.08mm	Top screw	.69	.65	.59
2120575	OST	OSTYC032150	6	3	0.200"/5.08mm	Top screw	.45	.39	.35
2120655	OST	OSTTC032162	1	3	0.200"/5.08mm	Top screw	.49	.45	.39
152355	OST	OSTTA034163	12	3	0.200"/5.08mm	Top screw	.59	.55	.49
2094590	OST	OSTTJ035153	11	3	0.200"/5.08mm	Top screw	1.19	1.09	.95
2124445	OST	OSTTA044163	12	4	0.200"/5.08mm	Top screw	.69	.65	.59

Fig. 1　Fig. 2　Fig. 3　Fig. 4
Fig. 5　Fig. 6　Fig. 7　Fig. 8
Fig. 9　Fig. 10　Fig. 11　Fig. 12
Fig. 13 (use w/ Fig. 6)　Fig. 14
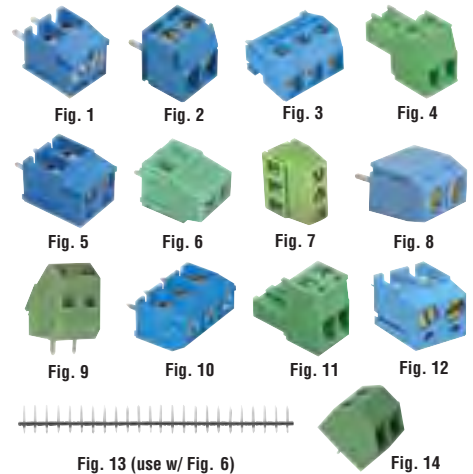
PCB Terminal Blocks

PCB mounted terminal blocks with spring loaded contacts for easy connections.

- Stackable terminal blocks
- Accepts 14-24 AWG wires
- Nominal current: 16A
- Nominal voltage: 250V
- 5.08mm lead spacing
- Spring cage connection • 45° position
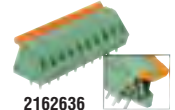
2162644: single position with left end plate
2162636: 10-position with right end plate

Part No.	Mfr. Part No.	Pos.	Lgth (mm)	1	10	100
2162644	1706730	1	7.62	$.39	$.29	$.19
2162636	1706714-10	10	50.88	1.95	1.75	1.49

UL1007 & UL1569 Rated Hook-Up Wire

Make wiring simple with these small gauge wire rolls. Able to handle high voltages while fitting and mounting easily into your terminal block slots. Applications: Interconnection circuits, wiring of computer and data processing equipment, applications and automotive.

- 300V peak • PVC insulation • Stranded • Sold in 100' rolls • VW-1
- Tin-plated copper • Temp. range: -40°C to 80°C (UL1007); -40°C to 105°C (UL1569)

Appliance Wiring Material (AWM) is UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.

AWG	Stranding	UL1007	UL1569	Black P/N	Red P/N	White P/N	Green P/N	Yellow P/N	Blue P/N	1	5	10
28	7 x 36	x	x	734611	734603	734610	734606	734605	734614	$5.95	$5.49	$4.95
26	7 x 34	x	x	734511	734503	734510	734506	734505	734514	6.75	5.95	5.49
24	7 x 32	x	x	734411	734403	734410	734406	734405	734414	7.49	6.75	5.95
22	7 x 30	x		126085	126034	126077	310852	310878	310886	8.49	7.49	6.75
22	7 x 30	x	x	734311	734303	734310	734306	734305	734314	8.49	7.49	6.75
20	10 x 30	x		125840	125795	125831	310894	310915	310922	11.49	10.49	9.49
20	10 x 30	x	x	734211	734203	734210	734206	734205	734214	11.49	10.49	9.49
18	16 x 30	x		125787	125736	125752	310932	310949	310958	14.49	12.95	11.49
18	16 x 30	x	x	734111	734103	734110	734106	734105	734114	14.49	12.95	11.49
16	26 x 30	x	x	734011	734003	734010	734006	734005	734014	16.95	15.25	13.95

DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 12-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A
- **248736:** 35mm W x 7.5mm D

237083
248736 Sold in 1 meter (39") length

Part No.	Mfr. Part No.	Type	1	10	100
237083	41296.2	SR2.5	$.75	$.59	$.55
248736	2094.0(IM)	TS35 x 7.5	8.95	7.95	6.95

JAMECO GRAB BAGS

- Most popular grab bag collection
- Passives and optos

135407　135271

Part No.	Description	1	10
135394	300 pc electrolyte capacitors	$19.95	$17.95
135458	400 pc mylar capacitors	19.95	17.95
2081385	100 bumpers & rubber feet	8.95	7.95
135351	2000 1/4-watt resistors	29.95	26.95
135407	300 1/5 to 3/4 linear pots	29.95	26.95
135271	1850 LED and lamps	69.95	62.95
18323	500 LED and lamps	29.95	26.95

TOP SELLING SOLDERS

Part No.	Description	1	10
170457	0.031" diameter solder tube, 60% tin 40% lead, 15 feet	$3.25	$2.95
209075	0.031" diameter solder roll, 99.3% tin 0.7% copper, 1.0 lb.	36.95	33.95
151474	0.031" diameter solder roll, 63% tin 37% lead, 1.0 lb.	39.95	34.95
73576	0.031" diameter solder tube, 60% tin 40% lead, 0.5 oz.	3.29	2.95
141786	0.034" diameter solder roll, 60% tin 40% lead, 1.1 lbs.	32.95	29.95
2188094	12.5" solder bar, 99.3% tin 0.7% copper, 1.7 lbs.	49.95	44.95

170457
141786

Component Kits and Grab Bags, see pages 30 & 31 for complete listing

Interconnects

Solderless Terminals

AMP **molex** **Terminals, Splices and Quick Connect/Disconnect** JAMECO ValuePro ★Web Code: TSQ

Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 | Fig. 6 | Fig. 7 | Fig. 8 | Fig. 9 | Fig. 10

Fig. 11 | Fig. 12 | Fig. 13 | Fig. 14 | Fig. 15 | Fig. 16 | Fig. 17 | Fig. 18 | Fig. 19 | Fig. 20
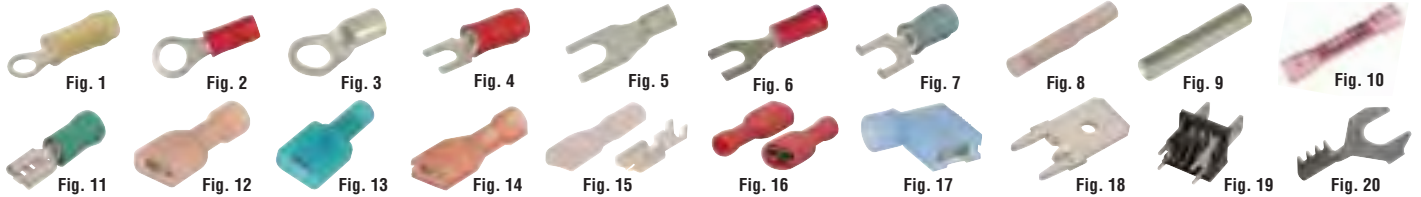
Ring Tongue Terminals
✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
2139073	Panduit	PV18-6R-M	2	Plastic	#6	22-18	Red ..... ✴		$.12	$.09
302658	AMP	31880	1	Nylon	#4	22-16	Red	.25	.19	.15
103684	ValuePro	2048	2	Plastic	#6	22-16	Red ...... ✴		.19	.15
302666	AMP	36152	2	Plastic	#6	22-16	Red	.25	.22	.15
2160622	ValuePro	31890VP	2	Plastic	#8	22-16	Red ...... ✴		.11	.09
302674	AMP	31890	2	Plastic	#8	22-16	Red .... ✴		.19	.15
844289	AMP	34107	3	Uninsul.	#6	22-16	—	.25	.19	.15
844377	AMP	34111	3	Uninsul.	#8	22-16	—	.25	.19	.15
302720	AMP	320619	1	Nylon	#6	16-14	Blue ...... ✴		.19	.15
2160569	ValuePro	320565VP	2	Nylon	#8	16-14	Blue ...... ✴		.19	.15
302738	AMP	320565	2	Nylon	#8	16-14	Blue	.29	.25	.19
302746	AMP	36160	1	Nylon	#10	16-14	Blue		.19	.15
2160606	ValuePro	321045VP	1	Nylon	#1/4	16-14	Blue ...... ✴		.12	.09
302754	AMP	321045	1	Nylon	#1/4	16-14	Blue ...... ✴		.19	.15
2144681	Panduit	PV10-8R-D	2	Vinyl	#8	12-10	Yellow .... ✴		.12	.09
302800	AMP	35109	1	Nylon	#10	12-10	Yellow..... ✴		.19	.15

Spade Tongue Terminals
✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302851	AMP	328394	4	Nylon	#2	22-16	Red	$.29	$.25	$.19
2125780	3M	MVU18-4FLK	4	Vinyl	#4	22-16	Red	.25	.19	.15
302869	AMP	327717	4	Nylon	#4	22-16	Red	.35	.29	.25
2160577	ValuePro	34541VP	4	Nylon	#6	22-16	Red .... ✴		.15	.13
302877	AMP	34541	4	Nylon	#6	22-16	Red	.25	.22	.17
103588	ValuePro	SVS1-3.7	4	Vinyl	#6	22-16	Red		.17	.15
2160631	ValuePro	323127VP	5	Uninsul.	#6	22-16	— .... ✴		.12	.09
842929	AMP	323127	5	Uninsul.	#6	22-16	— .... ✴		.19	.15
2129764	ETCO	PS55-130-THB	20	Uninsul.	#6	22-26	— .... ✴		.05	.04
502879	Molex	19144-0001	6	PVC	#5-6	18-22	Red .... ✴		.19	.15
2160585	ValuePro	35559VP	4	Nylon	#6	16-14	Blue ...... ✴		.19	.15
302906	AMP	35559	4	Nylon	#6	16-14	Blue ...... ✴		.19	.15
302914	AMP	32059	4	Nylon	#8	16-14	Blue	.35	.29	.25
103596	ValuePro	SVM-2	4	Vinyl	#8	16-14	Blue	.25	.22	.17
302949	AMP	326859	4	Nylon	#6	12-10	Yellow ..	.49	.45	.39

Flanged Spade Tongue Terminals
✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
2160551	ValuePro	320862VP	7	Nylon	#8	16-14	Blue .... ✴		$.12	$.09

Butt Disconnect Splices
✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Insul.	Type	AWG	Color	1	10	100
303167	AMP	323994	8	Nylon	Butt	24-20	Natural	$.69	$.65	$.59
2160542	ValuePro	320559VP	8	Nylon	Butt	22-16	Red	.29	.25	.19
303175	AMP	320559	8	Nylon	Butt	22-16	Red	.55	.49	.45
494469	Molex	19215-0009	9	Uninsul.	Butt	22-18	— .... ✴		.12	.09
491305	Molex	19164-0013	10	NiAC	Butt	22-18	Red	.45	.39	.35
503062	Molex	19154-0004	8	PVC	Butt	18-22	Red .... ✴		.15	.12
303183	AMP	320562	8	Nylon	Butt	16-14	Blue	.59	.55	.49

Quick Connect/Disconnect Female Terminals
✴ Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10	100
303247	AMP	640923-1	11	Nylon	.110 x .020	22-18	Red ..	$.29	$.25	$.19
303255	AMP	640917-1	11	Nylon	.187 x .020	22-18	Red	.29	.25	.19
489635	Molex	19003-0011★	12	Nylon	.187 x .020	22-18	Red ...... ✴		.19	.15
837134	AMP	2-520411-2★	12	Nylon	.187 x .032	22-18	Red	.25	.22	.19
489643	Molex	19003-0017★	12	Nylon	.187 x .032	22-18	Red	.25	.22	.15
524197	AMP	2-520182-2	14	Nylon	.187 x .020	22-18	Red ...... ✴		.19	.15
2160614	ValuePro	2-520182-2VP	14	Nylon	.250 x .020	22-18	Red ...... ✴		.19	.15
303280	AMP	640903-1	11	Nylon	.250 x .032	22-18	Red	.25	.22	.19
489627	Molex	19003-0001★	12	Nylon	.250 x .032	22-18	Red ...... ✴		.19	.15
489475	Molex	19002-0001	13	Nylon	.250 x .032	22-18	Red	.35	.29	.25
489758	Molex	19005-0001	12	Nylon	.250 x .032	22-18	Red	.25	.19	.15
2121551	ValuePro	QCD187	15	Nylon	.187 x .032	22-16	Clear .... ✴		.15	.12
106922	ValuePro	FDV1-187	11	Vinyl	.187 x .032	22-16	Red ...... ✴		.12	.09
2178734	ValuePro	GFF-1187	16	Vinyl	.187 x .020	22-16	Red ...... ✴		.15	.12
109112	ValuePro	GFF1250	16	Vinyl	.250 x .032	22-16	Red ...... ✴		.19	.15
103668	ValuePro	FDV1-250	11	Vinyl	.250 x .032	22-16	Red ...... ✴		.19	.15
303301	AMP	640919-1	11	Nylon	.187 x .020	16-14	Blue ..... ✴		.19	.15
489694	Molex	19003-0050★	12	Nylon	.187 x .032	16-14	Blue	.25	.19	.15
303327	AMP	640905-1	11	Nylon	.250 x .032	16-14	Blue	.25	.22	.19
489766	Molex	19005-0005	12	Nylon	.250 x .032	16-14	Blue	.25	.22	.15
489678	Molex	19003-0040★	12	Nylon	.250 x .032	16-14	Blue .... ✴		.19	.15
489871	Molex	19007-0021★	17	Nylon	.250 x .032	16-14	Blue ...	.35	.29	.25
303343	AMP	640907-1	11	Nylon	.250 x .032	12-10	Yellow	.35	.29	.25
489774	Molex	19005-0010	12	Nylon	.250 x .032	10-12	Yellow	.39	.35	.29

★ Translucent

Quick Connect/Disconnect Male Terminals Insulated

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10	100
489432	Molex	19001-0003	13	Nylon	.187 x .020	22-18	Red ..	$.29	$.25	$.19
489723	Molex	19004-0001	13	Nylon	.250 x .032	22-18	Red	.29	.25	.19
489731	Molex	19004-0005	13	Nylon	.250 x .032	16-14	Blue ...	.29	.25	.19

Printer Circuit Board Male Quick Connect
Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	Material	Size (ins.)	10	100	500
2150897	AMP	1217056-1★	18	Tin/Copper	.250 x .032	$.12	$.09	$.07
853927	AMP	63824-1★★	18	Tin/Copper	.250 x .032	.09	.07	.05
2129730	ValuePro	250-D†	19	Tin/Copper	.250 x .032	.12	.09	.07

★Single   ★★Continuous strip   † Dual

See page 31 for Solderless Terminal Grab Bag (P/N 2082118)

Solderless Terminal Kit
170 Terminals and Connectors!

- Clear, hinged plastic box
- Use crimping tool P/N 72996, right

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring terminal	16-14	#10
10	Male spade	16-14	1/4"	5	Ring terminal	12-10	#10
10	Female spade	22-16	1/4"	5	Ring terminal	12-10	#14
10	Female spade	16-14	1/4"	10	Spade terminal	16-22	#6
10	Ring terminal	22-16	#6	10	Spade terminal	16-22	#8
10	Ring terminal	22-16	#8	10	Spade terminal	16-14	#10
10	Ring terminal	16-14	#10	10	Butt connect	16-22	—
15	Ring terminal	16-14	#6	10	Butt connect	16-14	—
10	Ring terminal	16-14	#8	5	Butt connect	12-10	—

Part No.	Cross Ref. No.	Description	1	10	25
10990	G1C175-R	Solderless terminal kit	$14.95	$13.49	$11.95

Solderless Terminal Crimping Tool

- Crimps solderless terminals:
  18-22 AWG red, 14-16 AWG blue
  and 10-12 AWG yellow

Part No.	Mfr. Part No.	Size	1	10	25
72996	HT303	9.0"L x 2.0"W	$24.95	$21.95	$17.95

Super and Subminiature Basic Switches

HIGHLY · *OMRON* · *Mountain*

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B= 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

Fig. 1   A   B   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6

Part No.	Manufacturer	Mfr. Part No.	Fig.	Contact Form	Contact Rating	Actuator Type	Service Life (Mech./Elec.)	Terminal Type	Pricing 1	10	100
2204015	ValuePro	BSM2-0508-13	6	SPST	5A @ 250VAC, 5A @ 30VDC	Straight lever (1.31")	1M/30k	.110" quick connect	$1.09	$.99	$.89
2097580	ValuePro	13-03-050ST-EV	1	SPDT-NC	3A @ 125VAC, 0.2A @ 60VDC	Straight lever (0.551"L)*	1M/15k	Solder terminal	.79	.69	.59
188867	Omron	D2F-L	2	SPDT-NC	3A @ 125VAC, 2A @ 30VDC	Hinge lever (0.5"L)	1M/30k	Solder terminal	1.95	1.75	1.59
2178697	Omron	D2F-L-D	2	SPDT-NC	3A @ 125VAC, 2A @ 30VDC	Hinge lever (0.5"L)	1M/30k	Solder terminal	1.25	1.09	.99
2187892	ValuePro	DM3-01P-30-6	2	SPDT-NC	3A @ 125VAC, 2A @ 30VDC	Hinge lever (0.5"L)	1M/300k	Solder terminal	.99	.89	.79
2187913	ValuePro	SM5-01N-40-C51	3	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge lever (0.6"L)	30M/200k	Solder terminal	.99	.89	.79
187709	Omron	SS-5GL	3	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge lever (0.6"L)	30M/200k	Solder terminal	1.95	1.75	1.49
2187905	ValuePro	SM5-05N-45S-C51	4	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge roller (0.6"L)	30M/200k	Solder terminal	1.25	1.09	.99
187733	Omron	SS-5GL2	4	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge roller (0.6"L)	30M/200k	Solder terminal	1.95	1.75	1.59
159599	Highly Electric	SS0505A	4	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge roller (0.7"L)	30M/200k	Solder terminal	1.49	1.25	1.09
187717	Omron	SS-5GL13	5	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Simulated roller lever	30M/200k	Solder terminal	1.25	1.09	.99
2097678	Mountain Switch	61-05-025RR-Q-EV	4	SPDT-NC	5A @ 125VAC, 5A @ 250VAC	Roller lever (0.571"L)	10M/100k	.110" quick connect	1.95	1.75	1.49

*Super subminiature

Miniature Basic Switches

OMRON · *Honeywell* · *HIGHLY*

Fig. 1   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6   Fig. 7

- 3 terminals: common; normally open; normally closed   • Size: 1.10"L x 0.40"W x 0.63"H

Part No.	Manufacturer	Product No.	Fig.	Contact Form	Contact Rating	Actuator Type	Service Life (Mech./Elec.)	Terminal Type	Pricing 1	10	100
2210950	Omron	V-16G-1C25	3	SPST	10A @ 250VDC, 16A@250VAC	Pin plunger	50M/100k	0.187" quick connect	$1.75	$1.59	$1.35
2207072	ValuePro	BMNO-0503D-IN	1	SPST-NO	5A @ 125VAC/250VAC	Long hinge lever (2.0"L)	10M/200k	0.187" quick connect	1.25	1.09	.99
2076244	Honeywell	V3-23-D8	2	SPST-NO	5A @ 125VAC	Pin plunger	50M/300k	0.183" quick connect	1.25	1.09	.99
2178937	Zero Plus	1033013	2	SPST-NO	15A @ 250VAC	Pin plunger	10M/100k	0.250" quick connect	1.09	.99	.85
2162804	Mulon	M8-1P1	3	SPDT	5A @ 250VAC	Pin plunger	10M/1M	0.250" quick connect	1.09	.99	.85
483284	Cherry	D44CR1RD	4	SPDT	10A @ 125VAC/250VAC	Hinge lever (1.24"L)	6k	0.187" quick connect	3.49	3.19	2.79
1917099	Honeywell	V7-1C17D8	3	SPDT	15A @ 125/250/270VAC	Pin plunger	50M/300k	0.183" quick connect	2.95	2.59	2.29
187792	Omron	V-10G2-1C24K	5	SPDT-NC	0.1A @ 125VDC, 10A @ 250VAC	Hinge lever (1.08"L)	50M/300k	0.183" quick connect	3.25	2.95	2.59
187805	Omron	V-10G3-1C24K	1	SPDT-NC	0.1A @ 125VDC, 10A @ 250VAC	Long hinge lever (2.01"L)	50M/300k	0.183" quick connect	3.25	2.95	2.59
2178574	Micro	V3-101-D812	6	SPDT-NC	0.5A @ 125VDC, 4A @ 125VAC	Pin plunger	10M/1M	0.187" quick connect	1.25	1.09	.99
2117333	ValuePro	VM-05S-03D0-Z	1	SPDT-NC	5A @ 125VAC/250VAC	Long lever (2.0"L)	50M/300k	0.185" quick connect	1.95	1.75	1.49
2178929	Mulon	M8-1P1DS1	5	SPDT-NC	5A @ 250VAC	Short lever (0.6"L)	50M/300k	0.250" quick connect	.99	.89	.75
159572	Highly Electric	VS10N051C	7	SPDT-NC	10A @ 125VAC/250VAC	Hinge roller (0.60"L)	10M/100k	0.250" quick connect	1.95	1.75	1.49
159581	Highly Electric	VS10N021C2	5	SPDT-NC	10A @ 125VAC/250VAC	Hinge lever (1.05"L)	10M/100k	0.183" quick connect	1.95	1.75	1.49

Slide Switches

C&K · *GC* · UL

- Two mounting flanges
- Top actuation   • Nylon actual
- 6/6 nylon plastic housing
- Phenolic insulated

Fig. 1   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6   Fig. 7   B A   Fig. 8   Fig. 9

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing A"	B"	Housing Material	Lead Length	Actuator Height	Pricing 1	10	100
588220	C&K Switches	OS102011MA1QN1	1	3	SPDT on-on	0.2A @ 30VDC	.34 x .17 x .15	—	.08	Metal	.11"	.16"	$.39	$.35	$.29
621325	GC Electronics	35-202-BU	2	3	SPDT on-on	0.3A @ 30VAC	.44 x .22 x .18	.14	—	Metal	.14"	.16"	2.25	1.95	1.75
2133704	ValuePro	SS12D02	3	3	SPDT on-on	0.3A @ 50VDC	.35 x .18 x .18	—	.08	Metal	.12"	.15"	.29	.25	.15
2192384	ValuePro	3450XBB-4	4	3	SPDT on-on	0.3A @ 125VAC	.45 x .22 x .23	—	.12	Plastic	.21"	.15"	.49	.45	.39
2184392	ValuePro	SV65010F-0102-6H-FN	5	3	SPDT on-on	0.3A @ 125VAC	.63 x .26 x .41	0.05	.16	Metal	.19"	.24"	.99	.89	.75
2184384	ValuePro	SS60012F-0102-4V-NB	2	3	SPDT on-on	0.3A @ 125VAC	.75 x .21 x .35	—	.15	Metal	.14"	.34"	.75	.65	.59
109171	ValuePro	G4050X-R	4	3	SPDT on-on	0.5A @ 50VDC	.45 x .22 x .23	—	.15	Plastic	.17"	.15"	.39	.35	.29
2192860	ValuePro	DS-13	9	3	SPDT on-on	6.0A @ 120VAC/28VDC	.50 x .38 x .27	.18	—	Plastic	.11"	.18"	1.25	1.09	.99
2209191	ValuePro	SS-5-125V	2	4	SPDT on-off-on	0.5A @ 125VDC	.79 x .40 x .30	—	.17	Metal	.21"	.45"	.45	.39	.35
2181124	C&K Switches	S102031MS02QE	4	3	SPDT on-off	6.0A @ 125VAC/250VAC	1.38 x .53 x .28	—	.25	Plastic	.30"	.34"	1.25	1.09	.99
2180771	Alco	MHS133	3	3	SP3T on-on-on	0.3A @ 30VDC	.63 x .27 x .29	—	.08	Metal	.18"	.39"	.59	.49	.39
2184413	ValuePro	SV65020F-0103-6H-01-FN	5	8	SP3T on-on-on	0.3A @ 125VAC	.63 x .26 x .41	.10	.08	Metal	.19"	.24"	.99	.89	.75
2182442	Alco	AS2DG-PC	7	6	DPDT on-on	0.2A @ 20VDC	.37 x .20 x .37	.10	.10	Plastic	.14"	.11"	.35	.29	.25
161817	ValuePro	MS-306-R	6	6	DPDT on-on	0.3A @ 6VDC	.35 x .14 x .14	.10	.10	Plastic	.14"	.08"	.75	.69	.59
621472	GC Electronics	35-222	7	6	DPDT on-on	6.0A @ 125VAC	.88 x .53 x .35	.22	.29	Plastic	.25"	.36"	1.25	1.09	.99
2178591	Switchcraft	46206LFE*	8	6	DPDT locking	0.5A @ 125VDC	.88 x .53 x .44	.25	.28	Plastic	.17"	—	.35	.29	.25
2184405	ValuePro	SV68010F-0203-6V-FS	5	8	DP3T on-on-on	0.3A @ 125VAC	.50 x .27 x .19	.10	.08/.16	Metal	.17"	.24"	.99	.89	.75

*DPDT locking, flushed, 115/230 legend, 3A @ 125VAC

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Fig. 1 — W, L, D
Fig. 2
Fig. 3 — D, T
Fig. 4
Fig. 5
Fig. 6
Fig. 7
Fig. 8 — A, B
Fig. 9

Fig. 10
Fig. 11
Fig. 12
Fig. 13
Fig. 14
Fig. 15
Fig. 16 — A, D
Fig. 17
Fig. 18 — L, W, D

Fig. 19
Fig. 20
Fig. 21
Fig. 22
Fig. 23
Fig. 24
Fig. 25
Fig. 26
Fig. 27
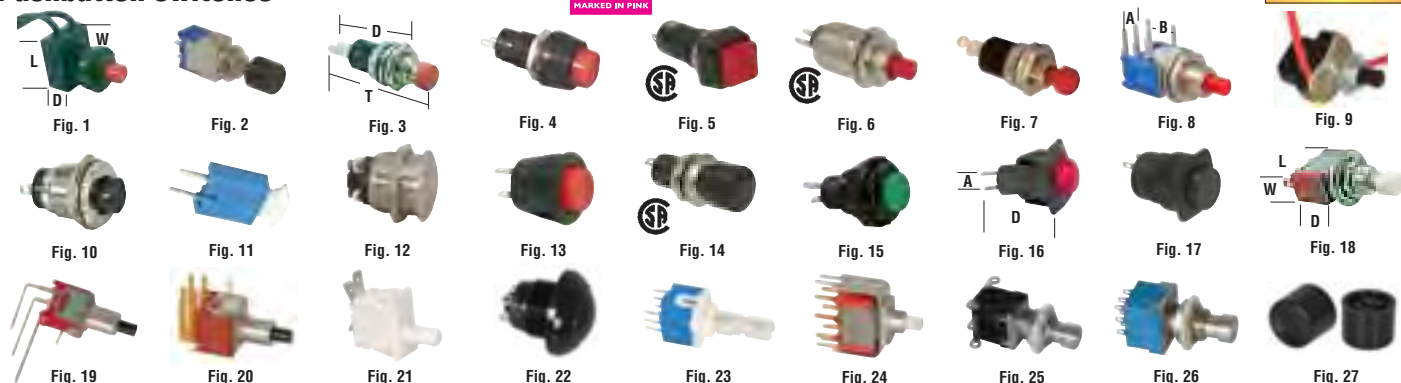
Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating	Mounting Hole Dia.	Dimension (L" x W" x D")	Lead Spacing A"	B"	Terminal Type	Button Color	Pricing 1	10	100
22200	Judco	J1881	1	2*	SPST on-off, Alt†	2A @ 14VDC	.375"	.65 x .52 x .40	.25	—	5" Pigtail	White	$1.95	$1.75	$1.49
315388	ValuePro	PA101A1-R/BL	2	2	SPST on-off, Alt†	6A @ 125VAC	.250"	1.2 (D) x 1.7 (T)	.185	—	Solder	Red	1.95	1.75	1.49
164639	ValuePro	MS3120R	7	2	SPST on-(off)2	.5A @ 125VAC	.295"	.31 (D) x 1.1 (T)	.175	—	Solder	Red	1.09	.99	.89
26649	ValuePro	GPB002-CN	3	2	SPST on-(off)2	3A @ 125VAC	.299"	.36 (D) x 1.13 (T)	—	.17	Solder lugs	Black	.95	.85	.75
164494	ValuePro	R13-84B	4	2	SPST off-on	3A @ 125VAC	.406"	.59 (D) x 1.2 (T)	.175	—	Solder	Red	2.49	2.25	1.95
315492	ValuePro	R13-23B-B	5	2	SPST off-on	3A @ 125VAC	.480"	1.13 (D) x 1.53 (T)	.20	—	Solder	Black	1.25	1.09	.99
315484	ValuePro	R13-23B-R	5	2	SPST off-on	3A @ 125VAC	.480"	1.13 (D) x 1.53 (T)	.20	—	Solder	Red	1.25	1.09	.99
315521	ValuePro	R13-23B-Y§	5	2	SPST off-on	3A @ 125VAC	.480"	1.38 (D) x 1.53 (T)	.18	—	Solder	Yellow	1.25	1.09	.95
2182291	Alcoswitch	TPB11CGPCES0	2	2	SPST off-(on)	.4A @ 20VDC	.172"	.39 x .34 x 3.8	.10	—	PC straight	Black	.99	.89	.75
164566	ValuePro	MS-402-RED	6	2	SPST off-(on)	.5A @ 125VAC	.172"	.60 (D) x .80 (T)	.08	—	Solder	Red	1.49	1.25	1.09
315643	ValuePro	R13-81-R	6	2	SPST off-(on)	.5A @ 125VAC	.203"	.44 (D) x .78 (T)	.08	—	PC terminal	Red	1.09	.99	.89
71643	ValuePro	SWB210✓	8	2	SPST off-(on)	1A @ 120VAC	.219"	.36 x .20 x .33	.20	.20	PC right angle	Black	2.95	2.59	2.39
2210870	Leviton	PB-1A-125-W	9	2*	SPST off-(on)	1A @ 125VAC	.370"	.90 x .63 x .73	.80	—	6" wire leads	Black	2.95	2.75	2.49
164671	ValuePro	NS801M0	11	2	SPST off-(on)	1A @ 125VAC	.492"	1.0 (D) x 1.1 (T)	.213	—	Solder terminal	Black	1.49	1.25	1.09
2181351	ValuePro	R13-502MA	10	2	SPST off-(on)4	1.5A @ 125VAC	.500"	.59(D) x 1.0(T)	.16	—	Solder	Black	2.25	1.95	1.75
164582	Mountain Switch	DS016B	10	2	SPST off-(on)4	1.5A @ 125VAC	.469"	.46 (D) x .88 (T)	.22	—	Solder	Black	2.95	2.59	2.39
2189492	ValuePro	PB-28B	12	2	SPST off-(on)	2A @ 48VDC	.750"	.87 (D) x 1.2 (T)	—	.37	Screw	Silver	3.49	3.25	2.95
2131274	Velleman	R1400A	12	2	SPST off-(on)	2A @ 48VDC	.750"	.87 (D) x 1.2 (T)	.37	—	Screw	Silver	3.95	3.59	3.29
171774	Apem	AV191003C900	12	2	SPST off-(on)	2A @ 48VDC	.750"	.87 (D) x 1.2 (T)	.37	—	Screw	Silver	13.95	12.95	11.95
26623	ValuePro	MS102	3	2	SPST off-(on)2	3A @ 125VAC	.250"	.65 (D) x 1.10 (T)	—	.14	Solder lugs	Red	.85	.75	.69
164486	ValuePro	R13-84A	4	2	SPST off-(on)3	3A @ 125VAC	.406"	.59 (D) x 1.2 (T)	.175	—	Solder	Red	2.25	1.95	1.75
315580	ValuePro	R13-40B-B	14	2	SPST off-(on)	3A @ 125VAC	.480"	.87 (D) x 1.4 (T)	.20	—	Solder	Black	1.49	1.25	1.09
315599	ValuePro	R13-40A-R	14	2	SPST off-(on)	3A @ 125VAC	.480"	.98 (D) x 1.56 (T)	.20	—	Solder	Red	1.49	1.25	1.09
315432	ValuePro	R13-23A-R	5	2	SPST off-(on)	3A @ 125VAC	.480"	1.13 (D) x 1.53 (T)	.20	—	Solder	Red	1.49	1.25	1.09
315678	ValuePro	R13-502A-05-BG	15	2	SPST off-(on)	3A @ 125VAC	.500"	.82 (D) x 1.02 (T)	.20	—	Solder	Green	1.75	1.49	1.25
315660	ValuePro	R13-502A-05-BR	15	2	SPST off-(on)	3A @ 125VAC	.500"	.82 (D) x 1.02 (T)	.22	—	Solder	Red	1.75	1.49	1.25
315651	ValuePro	R13-502A-05-BB	15	2	SPST off-(on)	3A @ 125VAC	.500"	.82 (D) x 1.02 (T)	.23	—	Solder	Black	1.95	1.75	1.49
174414	ValuePro	R13-510A	16	2	SPST off-(on)	3A @ 125VAC	.500"	.82 (D) x 1.02 (T)	—	.167	Solder lugs	Red	1.09	.99	.89
315820	ValuePro	R13-508AL-05-BRR	17	4	SPST off-(on)	3A @ 125VAC	.630"	.93 (D) x 1.14 (T)	.21	.25	Solder w/ LED	Red	2.49	2.25	1.95
315791	ValuePro	R13-508A-05-BB	17	2	SPST off-(on)	3A @ 125VAC	.630"	.94 (D) x 1.16 (T)	.24	—	Solder	Black	2.25	1.95	1.75
2160737	ValuePro	R13-508A-05-RB	17	2	SPST off-(on)	3A @ 125VAC	.630"	.94 (D) x 1.16 (T)	.24	—	Solder	Red	1.49	1.25	1.09
106112	Mountain Switch	DS-412-RED	13	2	SPST off-(on)	3A @ 125VAC	.734"	.66 (D) x .63 (T)	.275	—	Solder lugs	Red	1.95	1.75	1.49
22218	Judco	J1882	1	2*	SPST off-(on)	4A @ 14VDC	.375"	.65 x .52 x .40	.25	—	5" Pigtail	Red	1.49	1.25	1.09
2182080	C&K Switch	8121J81ZGE99	6	3	SPDT on-(on)	1A @ 120VAC	.250"	.50 x .27 x .41	.185	—	Solder lugs	Gray	1.95	1.75	1.49
575939	C&K Switch	8125SD9ABE	20	3	SPDT on-(on)	1A @ 120VAC	.250"	.50 x .27 x .41	.185	—	PC right angle	White	2.95	2.59	2.39
2159592	E-Switch	800-SP8-B7-M7-Q-E✓	19	3	SPDT on-(on)	3A @ 120VAC	.240"	.20 x .34 x .32	.10	—	PC right angle	Black	.99	.89	.75
121305	ValuePro	GPB006-WH	18	3	SPDT on-(on)1	3A @ 120VAC	.250"	.52 x .27 x .38	—	.185	Solder lugs	White	3.95	3.59	3.29
28063	ValuePro	PB18	18	3	SPDT on-(on)1	3A @ 120VAC	.250"	.52 x .28 x .38	—	.185	Solder lugs	Red	3.95	3.59	3.29
2217262	ValuePro	7MS7P1B20M7QNS	21	3	SPDT on-(on)	5A @ 125VAC	.250"	.50 x .27 x .37	—	.14	Solder right angle	Red	1.95	1.75	1.49
2182101	C&K Switch	8168SHABE2	20	3	SPDT on-(on)	6A @ 120VAC	.300"	.50 x .27 x .45	.185	—	PC right angle	Black	1.95	1.75	1.49
2181386	ValuePro	WJ-DS03	21	3	SPDT on-(on)	10A @ 125VAC	.335"	1.6 x 1.0 x .54	—	—	Solder tab	White	2.95	2.75	2.49
2209107	C&K Switch	NP8S2D203QE	22	3	SPDT on-(off)	5A @ 32VDC	.484"	.80 (D) x .43 (T)	.17	.26	Solder lugs	Black	10.95	9.95	8.95
2215785	C&K Switch	PVA1-OA-H1-1.2N	23	6	DPST on-(on)	.1A @ 32VDC	—	.36 x .34 x .30	.24	.10	PC pin	Red	.99	.85	.75
594718	C&K Switch	PVA2EEH21.7N	23	6	DPDT on-(on)	.1A @ 32VDC	—	.36 x .36 x .43	.24	.10	PC pin	White	.69	.59	.49
2182119	C&K Switch	8225SD3V3BE	24	6	DPDT on-(on)	.4A @ 20VAC	.250"	.50 x .45 x .41	.185	—	PC straight	White	.99	.89	.75
2159605	C&K Switch	TP21SH9ABE✓	20	4	DPST on-(on)	1A @ 120VAC	.187"	.32 x .32 x .38	.20	.10	PC right angle	Black	1.95	1.75	1.49
2181407	ValuePro	01-690C	25	6	DPDT off-on	4A @ 125VAC	.472"	1.7 x .71 x .98	.35	—	Solder lugs	Silver	4.95	4.49	3.95
2181415	ValuePro	01-690DB-RH	26	9	3PDT off-on	4A @ 125VAC	.472	1.7 x .68 x .77	.21	.19	Solder lugs	Silver	4.95	4.49	3.95
2202132	Alcoswitch	C22004	27		Black pushbutton switch cap (1825068), round, .402"Dia x .315"H								.49	.45	.39

*Lead wires † Alt = alternate action § Illuminated: red/green ✓ Uses 2202132 pushbutton cap Additional panel mounting hardware: 1 2182477; 2 2182688; 3 2183242; 4 2182733, see pg 79

Electromech

Subminiature Toggle Switches

Additional Toggle Switches, visit Jameco.com and use Web Code ★ **Web Code: NAN**

- Mounting hole diameter: 7/32 (.21")
- Round toggle
- Thread: 10-48 UNS
- Pre-tinned leads
- Metal construction

Includes: Panel mounting hardware

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing A"	B"	Terminal Type	Pricing 1	10	100
72161	ValuePro	SW1501§	1	2	SPST on-off	5A @ 120VAC & 1.5A @ 250VAC	.33 x .21 x .33	.10	—	Solder lugs	$1.49	$1.35	$1.19
567752	Fujisoku	AT1D-6M3	2	3	SPDT on-on	0.05A @ 48VDC/VAC	.37 x .22 x .33	.30	.10	PC right angle	1.49	1.25	1.09
106067	ValuePro	SWP124	2	3	SPDT on-on	0.4VA max.	.25 x .33 x .40	.20	.10	PC right angle	1.95	1.75	1.59
2192544	C&K	T101MH9V3B	5	3	SPDT on-on	0.4VA @ 20VAC/20VDC	.32 x .20 x .34	.10	—	Solder lugs	1.25	1.09	.99
2202757	JBT	A123S1D9AB	2	3	SPDT on-on	0.5VA @ 28VDC/AC	.50 x .37 x .26	.17	—	PC right angle	4.95	4.49	3.95
75969	ValuePro	SWM136§	1	3	SPDT on-on	3A @ 125VAC & 1.5A @ 250VAC	.33 x .21 x .33	.10	—	Solder lugs	1.75	1.49	1.25
72557	ValuePro	GTS304§	1	3	SPDT on-off-on	1.0A @ 250VDC	.32 x .20 x .28	.10	—	Solder lugs	1.75	1.49	1.25
2076228	C&K (sealed)	ET05J6ABE	3	3	SPDT (on)-off-(on)	0.4VA @ 20VDC	.32 x .32 x .20	.20	.10	PC right angle	.69	.59	.49
75977	ValuePro	SWM137§	4	6	DPDT on-on	3A @ 125VAC	.33 x .37 x .33	.17	.10	Solder lugs	1.95	1.75	1.59
138907	ValuePro	SW1503	4	6	DPDT on-off-on	3A @ 125VAC & 1.5A @ 250VAC	.36 x .37 x .33	.17	.10	Solder lugs	1.75	1.49	1.25
2182549	ValuePro	10-48HDWR	6	—	Additional 10-48UNS threaded panel mounting hardware for above switches indicated with §						.89	.79	.69

Miniature Toggle Switches

C&K Alcoswitch ᶜＵＬᵤₛ CSA **NEW** MARKED IN PINK ★ **Web Code: PAJ**

- Mounting hole dia.: 1/4"
- Thread: 1/4-40 UNS-2B
- Waterproof boot seals (pg 68)

Includes: Panel mounting hardware

Fig. 1 Fig. 2 Fig. 3 (PC straight or right angle) Fig. 4 Fig. 5 Fig. 6 (PC or solder lug) Fig. 7

Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing A"	B"	C"	Terminal Type	Lever Type	Pricing 1	10	100
2180834	JVP	TT11AGPC9T1/4	1	2	SPST on-none-off	3 @ 125/20VDC	.32 x .20 x .35	—	0.20	—	PC straight	Round	$1.49	$1.25	$1.09
317228	JVP	1MS9T1B1M1QE[1]	1	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.95	1.75	1.59
317287	JVP	1MS9T6B11M1QE[1]	2	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.49	1.25
2135478	JVP	T100T1B4A2	3	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .28 x .35	—	0.185	—	PC straight	Round	1.49	1.25	1.09
76523	JVP	JMT113[1]	1	2	SPST on-on	5 @ 125 & 2 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
2180906	ALC	A101MD9AB	3	3	SPDT on-on	5 @ 125 & 2 @ 250	.50 x .27 x .35	—	0.185	—	PC right angle	Round	1.25	1.09	.99
317295	JVP	1MS1T6B11M1QE[1]	2	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.95	1.75	1.49
317236	JVP	1MS1T1B1M1QE[1]	1	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
2135486	JVP	T101T1B4A2	3	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .28 x .35	—	0.185	—	PC straight	Round	1.49	1.25	1.09
2135857	JVP	GTS103[1]	1	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .28 x .35	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
22833	JVP	MS102F1-R[1]	2	3	SPDT on-on	5 @ 125 & 2 @ 250	.52 x .28 x .36	—	0.185	—	Solder lugs	Flat	1.75	1.49	1.25
26332	JVP	MPC123R[1]	4	3	SPDT on-on	5 @ 120 & 2 @ 250	.52 x .32 x .37	—	0.185	—	PC straight	Round	1.75	1.49	1.25
75854	JVP	T101T1B1A1QN[1]	1	3	SPDT on-on	5 @ 120 & 2 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
2182371	ALC	MSTA106D	4	3	SPDT on-on	6 @ 125 & 3 @ 250	.48 x .27 x .44	—	0.185	—	PC straight	Round	1.25	1.09	.99
75871	JVP	SWM145	2	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	0.20	PC right angle	Round	1.25	1.09	.99
71597	JVP	MTS-102-C4	3	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.133	0.51	PC right angle	Round	1.25	1.09	.99
2181167	C&K	U18SH3CGE[1]	4	3	SPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.25	1.09	.99
317244	JVP	1MS3T1B1M1QE[1]	1	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.49	1.25
317308	JVP	1MS3T6B11M1QE[1]	2	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.95	1.75	1.49
21910	JVP	JMT121[1]	1	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.25	1.09	.99
2181301	C&K	7101L42YZQ2	2	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.25	1.09	.99
2181845	C&K	7108SYZQI	4	3	SPDT on-none-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.25	1.09	.99
26315	JVP	MPC121[1]	4	3	SPDT on-off-on	5 @ 125 & 2 @ 250	.52 x .32 x .37	—	0.185	—	PC straight	Round	1.75	1.49	1.25
2181765	C&K	7107SYZQI	4	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.25	1.09	.99
2181781	C&K	7107SDCQE	4	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	PC straight	Round	1.25	1.09	.99
317252	JVP	1MS4T1B1M1QE[1]	1	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.95	1.75	1.49
2180893	ALC	A105SYZB	4	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .36	—	0.185	—	Solder lugs	Round	1.25	1.09	.99
317316	JVP	1MS4T6B11M1QE[1]	2	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	2.25	1.95	1.75
75889	JVP	SWM129[1]	1	3	SPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.95	1.75	1.49
2210853	JVP	Q1121-1MD1-T1B1-MS	6	6	DPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	—	0.185	—	Solder lugs	Round	1.95	1.75	1.59
317472	JVP	1MD1T6B11M1QE[1]	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	1.95	1.75	1.49
21979	JVP	T201T1B1A1QN[1]	6	6	DPDT on-on	5 @ 120 & 2 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.75	1.49	1.25
26367	JVP	GTS112-P[1]	6	6	DPDT on-on	5 @ 120 & 3 @ 250	.52 x .50 x .41	0.20	0.157	—	PC straight	Round	1.75	1.49	1.25
22859	JVP	GTS172BLK[1]	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Flat	1.75	1.49	1.25
2179665	NKK	M2022X001	2	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .50 x .38	0.20	0.200	—	PC straight	Flat	1.95	1.75	1.49
620576	GCE	35-009[1]	6	6	DPDT on-on-on	.50 x .45 x .40		0.23	0.150	—	Solder lugs	Round	3.95	3.59	3.29
26358	JVP	MPC221[1]	6	6	DPDT on-off-on	5 @ 125 & 2 @ 250	.52 x .52 x .38	0.20	0.185	—	PC straight	Round	1.75	1.49	1.25
21952	JVP	GTS114[1]	6	6	DPDT on-off-on	5 @ 120 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.95	1.75	1.49
22841	JVP	GTS164BLK[1]	5	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Flat	1.95	1.75	1.49
317498	JVP	1MD4T6B11M1QE[1]	5	6	DPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	2.95	2.59	2.39
75951	JVP	SWM130[1]	6	6	DPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.95	1.75	1.49
2170206	JVP	MTS-402	6	12	4PDT on-on	6 @ 125 & 2 @ 250	.90 x .52 x .48	0.17	0.170	0.17	Solder lugs	Round	2.95	2.59	2.29
2182477	JVP	1/4-40HDWR	7	—	Additional 1/4-40 UNS threaded panel mounting hardware (4 pcs.) for above switches indicated with [1]								.89	.79	.69

* **ALC** = Alcoswitch | **C&K** = C&K Switches | **GCE** = GC Electronics | **JVP** = Jameco ValuePro | **NKK** = NKK Switches

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Electromech

Toggle Switches, Switch Covers & Rocker Switches

Standard Toggle Switches

★ *Web Code: NAJ*

- Mounting hole diameter: 1/2"
- Shaft thread: M12 x 0.75
- Waterproof boot seals (below)

2-pin (620787) · 3-pin · 2-pin or 4-pin · 6-pin · Fig. 1 · Fig. 2 · Fig. 3 · Fig. 4 · Fig. 5 · Fig. 6

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	A"	B"	C"	Terminal Type	Lever Type	1	10	100
76241	ValuePro	SWM128	1	2	SPST on-off	4 @ 125 & 2 @ 250	1.00 x .56 x .52	.23	—	—	Solder lugs	Round	$2.25	$1.95	$1.75
76232	ValuePro	SWM125	2	2	SPST on-off	6 @ 125 & 3 @ 250	1.00 x .53 x .51	.23	—	—	6" lead wire	Round	2.25	1.95	1.75
2126192	Philmore	30-350B*	2	2	SPST on-off	8 @ 125 & 4 @ 250	1.00 x .64 x .33	.23	—	—	6" lead wire	Round	3.95	3.59	3.25
317825	ValuePro	R13-25A2-01	3	2	SPST on-off	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	—	.250" quick connect	Round	2.75	2.49	2.25
318027	ValuePro	R13-28A-06	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	M3 screw	Round	2.95	2.59	2.29
318002	ValuePro	R13-28A-01	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	2.75	2.49	2.25
621499	GC Electronics	35-3005*	4	2	SPST on-off	20 @ 125 & 10 @ 250	.92 x .64 x .40	—	.47	—	.250" quick connect	Round	4.95	4.49	3.95
318123	ValuePro	R13-28D-01	3	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	2.75	2.49	2.25
158060	ValuePro	JKN32†	1	4	DPST on-off	4 @ 125 & 2 @ 250	1.00 x .56 x .52	.23	—	.23	Solder lugs	Round	1.25	1.09	.99
76260	ValuePro	SWM126	1	6	DPDT on-on	5 @ 125 & 3 @ 250	1.10 x .77 x .60	.30	.60	.30	Solder lugs	Round	1.95	1.75	1.49
317850	ValuePro	R13-25B1-05	5	6	DPDT on-on	10 @ 125 & 6 @ 250	1.14 x .79 x .62	.40	.40	.40	Solder lugs	Flat	2.75	2.49	2.25
158078	ValuePro	JKN3CC	1	6	DPDT on-on	15 @ 125 & 10 @ 250	1.19 x .76 x .73	.44	.59	.44	Screw lugs	Round	1.49	1.25	1.09
318043	ValuePro	R13-28B-01	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	3.95	3.59	3.19
317972	ValuePro	R13-25E1-05	5	6	DPDT on-off-on	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	—	Solder lugs	Flat	3.95	3.59	3.29
567761	ValuePro	T-1224	3	6	DPDT on-off-on	10 @ 125 & 5 @ 250	1.18 x .77 x .75	.40	.60	.40	M3 screw	Round	3.95	3.59	3.29
2182733	ValuePro	M12HDWR	6		Additional M12 hardware (2 hex nuts, 1 internal lock washer, 1 key lock washer)								.89	.79	.69

*Shaft thread: 15/32-32 use 2182506 (pg 79) for additional panel mounting hardware   † alternate action

Protective and Waterproof Boot Seal Switch Covers

★ *Web Code: SBS*

- Full protection from water, oil, sand, dust, dirt, humidity, moisture and other contaminants
- Applications: aerospace, automotive, computer and electronic equipment   • IP68 rated

2150184 (Switch not included) · 2172893 · 2150192 · 2192683

Part No.	Manufacturer	Product No.	Description	Dimensions	1	10	100
2150184	Zago	TH 605-GY	Toggle switch boot seal, gray, 1/4-40, fits miniature toggle switches (pg 67)	0.375" OD x 0.071" ID x 0.500"D	$1.95	$1.75	$1.49
2172893	Philmore	30-1000B	Toggle switch boot seal, black, 1/4-40, fits miniature toggle switches (pg 67)	0.460" OD x 0.180" ID x 0.572"H	1.75	1.49	1.25
2150192	Zago	TH 606-GY	Toggle switch boot seal, gray, 15/32-32, fits standard toggle switches (above)	0.625" OD x 0.209" ID x 0.890"H	1.95	1.75	1.49
2192683	Zago	TH609-BLK	Toggle switch boot seal, black, 15/32-32, fits standard toggle switches (above)	0.324" OD x 0.226" ID x 0.937"H	2.25	1.95	1.75

Standard Appliance Panel Mount Rocker Switches

NEW MARKED IN PINK

★ *Web Code: VBU*

316048 · 316136 · 316451 · 1945284 · 577221 · 316022 · 316014 · 2182320 · 1945241 · 2172691 · 2178566 · 2192780 · 316072 · 617473 · 316111 · 316153

Part No.	*Mfr.	Product No.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	A"	B"	Rocker Color	Terminal Type	1	10	100
2208198	JVP	RS-001G-A-BB-4	2	SPST on-off	3 @ 250 & 6 @ 125	.59 x .41 x .75	—	.20	Black	.145" quick connect	$.75	$.65	$.55
2172738	JVP	1901	2	SPST on-off	4 @ 125 & 6 @ 250	.74 x .26 x .61	.37	—	Black	PCB solder	.99	.85	.69
316048	JVP	R13-66B-G-02	3	SPST on-off	9 @ 125 & 6 @ 250	.83 x .59 x .47	.31	.31	Green illum.	.187" quick connect	1.25	1.09	.99
316128	JVP	R13-73B-R-02	3	SPST on-off	9 @ 125 & 6 @ 250	.83 x .59 x .87	.35	.35	Red illum.	.187" quick connect	1.25	1.09	.99
316136	JVP	R13-73B-Y-02	3	SPST on-off	9 @ 125 & 6 @ 250	.83 x .59 x .87	.35	.35	Yellow illum.	.187" quick connect	1.49	1.25	1.09
2182320	ALC	XR116A005	2	SPST on-off	10 @ 125 & 5 @ 250	.89 x .63 x .81	.33	—	Black	.250" quick connect	.99	.89	.79
316451	JVP	R13-243A-02	2	SPST on-off	10 @ 125 & 6 @ 250	.83 x .37 x .85	.35	—	Black	.187" quick connect	.99	.89	.79
1945284	PRO	R13-66	2	SPST on-off	10 @ 125 & 6 @ 250	.83 x .59 x .55	.31	—	Dark gray	5.5" wire leads	.79	.65	.49
577221	CHY	RRA22H3BBBNN	2	SPST on-off	12 @ 125 & 10 @ 250	.69 x .51 x .64	.35	—	Black	.187" quick connect	1.19	1.09	.99
316022	JVP	R13-66A-R-02	2	SPST on-off	15 @ 125 & 8 @ 250	.83 x .59 x .63	.31	—	Red	.187" quick connect	.99	.89	.79
316014	JVP	R13-66A-B-02	2	SPST on-off	16 @ 125 & 10 @ 250	.83 x .59 x .63	.31	—	Black	.187" quick connect	.99	.89	.79
2201914	HNY	028-01011-00	2	SPST on-off	16 @ 125 & 12 @ 250	1.3 x .55 x .90	.26	—	Black	.250" quick connect	.99	.89	.79
2126205	PHL	30-600B	2	SPST on-off	20 @ 125 & 10 @ 250	1.70 x .97 x .70	.25	—	Black	.250" quick connect	1.25	1.09	.99
1945241	ITW	163-099-029	3	SPDT	16 @ 125 & 12 @ 250	1.2 x .55 x .59	.26	.26	Black	.250" quick connect	.69	.59	.39
2172691	DIA	570-11	3	SPDT on-on	5 @ 125 & 2 @ 250	.49 x .27 x .37	.19	.19	Orange	.08" solder	.99	.89	.79
2192780	JVP	62111422-0.0.N	6	SPDT on-on	8 @ 125 & 4 @ 250	.67 x .46 x .67	.20	.20	Black	PC terminal	1.25	1.09	.99
2178566	CWI	GRS-4012-0050	3	SPDT on-on	8 @ 125 & 4 @ 250	.74 x .50 x .46	.22	—	Red	.187" quick connect	.59	.45	.35
316072	JVP	R13-66D-02	3	SPDT on-off-on	16 @ 125 & 10 @ 250	.83 x .59 x .47	.31	.31	Black	.187" quick connect	1.19	.99	.89
617473	GCE	35-695	3	SPDT (on)-off-(on)	16 @ 125 & 16 @ 250	.93 x .43 x .62	.34	.56	Black	.250" quick connect	4.49	3.95	3.59
316111	JVP	R13-73A2-B-02	4	DPST on-off	9 @ 125 & 6 @ 250	.83 x .59 x .68	.20	.34	Black	.187" quick connect	1.49	1.25	1.09
316153	JVP	R13-73C-R-02	4	DPST on-off	10 @ 125 & 6 @ 250	.83 x .59 x .87	.20	.34	Red illum.	.187" quick connect	1.49	1.25	1.09
2158522	JVP	GP1231100M00	4	DPST on-off	10 @ 125 & 8 @ 250	.83 x .59 x .63	.20	.34	Black	.187" quick connect	.79	.69	.59
127028	JVP	GRK-618A	4	DPST on-off	10 @ 250	.96 x .87 x .64	.33	.50	Beige	.250" quick connect	1.95	1.75	1.49
2188641	CHY	WRG32F2FYYNN	6	DPST on-off	16 @ 125/250	1.06 x .85 x 1.14	.45	.41	Light Gray	.250" quick connect	.79	.69	.59
2182004	C&K	7205J2V3GE2	6	DPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .14	.19	—	Black	PC terminal	1.09	.99	.85

* ALC = Alcoswitch | CHY = Cherry | C&K = C&K Components | CWI = CW Ind. | DIA = Dialight | GCE = GC Elec. | HNY = Honeywell | JVP = ValuePro | ITW = Illinois Tool | PHL = Philmore | PRO = Pronic Elec.

ECE — Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"
- Size: .39"W x .39"D x .20"H
- Material: UL94V-0 grade • Top adjustment
- Max. switching load rating: 25mA @ 24VDC
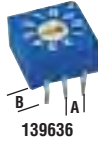
139636

★ *Web Code: UAX*

Part No.	Mfr. Part No.	Type	Pos.	1	10
139636	ERD110RSZ	BCD	10	$2.95	$2.59
139652	ERD116RSZ	HEX	16	2.95	2.59

JAMECO ValuePro — Rotary Switches

- Contact rating: 30VDC @ 0.3A; except P/N 2170353: 125VAC @ 0.3A
- Insulation resistance: 10MΩ min.
- Mounting hole diameter: 3/8"; except P/N 2170353: 0.345"
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts (except for P/N 2170353: D-type); round, plated frame, plastic contact wafer (except for P/N 2170353: Phenolic casing)
- Solder eyelet lugs
- Make before break except for ones noted with "†"
- Shaft size: 0.46"L x 0.25" Dia.; except P/N 2170353: 0.34"L x 0.25" Dia.
- Lug size: 0.07" • Layers: 1
- Panel mount
- P/N 2170353 size 0.32"L x 0.25"Dia.
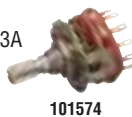
101574

★ *Web Code: TMU*

2182709

Part No.	Product No.	Poles	Pos.	1	10	100
2184464	SR2511F-0107	1	7	$2.49	$2.25	$2.09
101532	G3SR026	1	12	1.25	1.09	.95
2184448	SR2511F-0112†	1	12	2.25	1.95	1.75
2170353	SR2511F-25FN†	2	5	2.25	1.95	1.75
101574	G3SR022	2	6	1.25	1.09	.95
2184472	SR2511F-0303	3	3	2.25	1.95	1.75
101566	G3SR023	3	4	1.25	1.09	.95
101558	G3SR024	4	3	1.25	1.09	.95
2184481	SR2511F-0602	6	2	2.25	1.95	1.75
2182709	Additional panel mtg. hardware			.69	.59	.49

JAMECO ValuePro — Binary Coded Dicimal (BCD) Switches

★ *Web Code: QAD*

- Contact resistance: 100mΩ max.
- Contacts: gold plated BE-CU alloy
- Front snap-tab mounting with end plates
- Continuous load: 1 amp max.
- 28VDC @ 0.15A
- Character height: P/N 26789: 0.19"; P/N 26818: 0.25"

26789 (2 switches shown)

26761 **26818 (2 switches shown)** **26771**
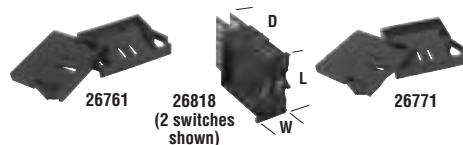
Part No.	Description	Size (L"xW"xD")	1	10
26789	10-pos. pushbutton	1.2 x 0.3 x 1.7	$4.95	$4.75
26761	End plates for 26789 (2)	1.2 x 0.2 x 1.1	1.25	1.09
26818	10-pos. thumbwheel	1.2 x 0.3 x 1.9	4.95	4.75
26771	End plates for 26818 (2)	1.2 x 0.2 x 1.3	1.25	1.09

JAMECO ValuePro — Standard, Low Profile, Piano & Right Angle DIP Switches

- Switch contacts: SPST (except P/N 2122781 – DPST)
- Piano switches have raised lever

★ *Web Code: UCY*

696950 (Standard)   **38842 (Standard)**

AMP **Grayhill**

Compatible Socket Chart, see page 12 for Sockets

Switch	Socket	Switch	Socket
2-position	112193	7-position	112214
3-position	112193	8-position	112222
4-position	112206	9-position	112231
5-position	112214	10-position	38608
6-position	112214	12-position	112282

696917 (Standard) **139003 (Low Profile)** **139012 (Low Profile)** **2076156 (Right Angle)**

✲ Order in multiples of 10

Part No.	Product No.	*Mfr.	*Type	Pos.	1	10	100
2122781	78F02	GRY	1,5	2	$.79	$.75	$.65
109059	206-2-VP-R	JVP	1,5	2	.75	.65	.59
2076156	SDAX-2RX-X	BNS	3,5	2	✲	.59	.49
206359	206-3	JVP	1,5	3	.59	.49	.39
202472	ADF03	ALC	2,6	3	.59	.49	.39
38820	DT-04VP	JVP	1,5	4	.85	.75	.65
696950	78B04ST	GRY	1,5	4	1.25	1.09	.89
2082231	3-4356405	AMP	1,7	4	.99	.89	.79
696888	76SB04	GRY	1,7	4	.99	.89	.79
139003	206-4LP	JVP	2,5	4	.99	.89	.79
546759	3-435668-5	AMP	1,8	5	.59	.49	.45
2076674	DPL-06KT	JVP	1,4,7	6	.59	.49	.39

Part No.	Product No.	*Mfr.	*Type	Pos.	1	10	100
38826	206-6	JVP	1,5	6	$.89	$.79	$.69
2082257	BD07	C&K	1,5	7	.49	.39	.29
1932707	5435802-1	AMP	1,4,7	8	.75	.65	.55
38842	206-8	JVP	1,7	8	.79	.69	.65
696917	76SB08ST	GRY	1,7	8	1.39	1.25	1.09
1939562	4-435626-2	AMP	1,8	8	.69	.65	.59
139012	DK-08R	JVP	2,6	8	1.09	.99	.89
2082476	JS8722-9	JVP	1,5	9	.49	.39	.29
2082273	1109-6952	JVP	1,6	9	.59	.49	.39
38797	206-10	JVP	1,5	10	.99	.89	.79
2082290	902018	JVP	1,6	12	.65	.55	.45

*1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush

C&K — A Series Rotary Switches

- 30° index flatted actuator, 3/8-32 threaded mounting style
- Solder lug termination
- Dielectric strength: 1000Vrms
- 15,000 make & break cycles
- Contact resistance: 20mΩ typical @ 2-4VDC
- Contact rating: 2.5A @ 125VAC; 350mA @ 250VDC
- Contact and terminals: brass, silver plated
- Housing/actuator: glass filled 6/6 nylon (UL94V-0)
- Stop style: Adjustable

2182611

576501

Part No.	Mfr. Part No.	Poles	Pos.	Act. Ht.	1	10
576501	A11215RNZQ	1	12	1.5"	$5.49	$4.95
576421	A20615RNZQ	2	6	1.5"	5.49	4.95
2132234	A30403RNCBE	3	4	0.375"	4.95	4.49
2182611	Additional panel mtg. hardware				.69	.59

E-SWITCH — Rotary Switch

- 1 to 4 poles • No stop option
- 1 to 12 positions
- Operating force: 8.6 N/cm
- Insulation resistance: 100MΩ
- Rating: 350mA @ 125VAC; 150mA @ 250VAC

Part No.	Product No.	1	10	100
2167322	KC52A13.00NPS	$.99	$.89	$.75
2182611	Additional panel mtg. hardware	.69	.59	.49

Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade

Part No.	Description	Size	1	10	100
153315	Trimmer tool	5.2"L	$1.95	$1.75	$1.49

JAMECO ValuePro — Round Keylock Switches

- Used in computer and other security systems
- Mounting hole = 0.75" (except P/N 106650 = 0.5")
- Key removable from 2 positions • Two keys

★ *Web Code: RAN*

105832: All keys marked different (2001, 2007, 2024);
196649: All keys marked alike (2341) **Includes:** Mounting nut
2167701: Key removable in 1 position, .577" mounting hole; DPDT
2167710: Key removable in 4 position, .732" mounting hole; SP4T
2172025: Key removable in 4 position, .413" mounting hole; SPDT

106650   **105832/196649**   **2167701**   **2167710**

Part No.	*Mfr.	Product No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	100
106650	JVP	KS4B	2, 0.59"	0.92"	Barrel	125VAC/3A	$5.95	$5.39	$4.79
105832	JVP	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	5.95	5.39	4.79
196649	JVP	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	5.95	5.39	4.79
2167701	JVP	31-295-025D	1, 0.574"	1.42"	0.126" solder, quick conn.	250VAC/5A	5.95	5.39	4.79
2167710	LOR	KC77362	4, 1.1"	1.42"	Solder	110VAC/.35A	3.95	3.59	3.29
2172025	JVP	S116-1	1, 0.42"	1.20"	Solder	125VAC/1A	4.95	4.49	3.95

* ALC = Alcoswitch | AMP = AMP/Tyco | BNS = Bourns | C&K = C&K Switches | GRY = Grayhill | JVP = Jameco ValuePro | LOR = Lorlin Electronics

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Electromech

OMRON C&K Tactile Switches

★ Web Code: QBF

- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ

Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 | Fig. 6 | Fig. 7 | Fig. 8 | Fig. 9 | Fig. 10

✻ Order in multiples of 10

Part No.	⊛Mfr.	Product No.	Fig.	Pins	Contact Rating (mA @ VDC)	Dimensions (ins.) L	W	D	C	Lead Spacing A"	B"	Button Color	Pricing 1	10	100
1586074	PAN	EVQ-PAG04K	1	4	20 @ 12	.24	.24	.14	.05	.17	.26	Black	$.35	$.29	$.25
199726	PAN	EVQ11A04M	2	2	20 @ 15	.24	.24	.14	.03	.20	.17	White	.39	.35	.29
2095120	PAN	EVQ11L07K	2	2	20 @ 15	.24	.24	.14	.11	.20	—	Black	.39	.35	.29
119011	JVP	KTIIBICM	1	4	20 @ 15	.24	.24	.15	.03	.17	.25	Black	.35	.29	.25
149948	JVP	KT11P4CM	3	4	20 @ 15	.24	.24	.15	.13	.17	.25	Black	.35	.29	.25
122973	JVP	DTS1212	4	4	20 @ 15	.47	.47	.18	—	.20	.50	Black	.39	.35	.29
2162791	ALP	SKHLAAA010	5	2	50 @ 12	.24	.14	.14	.06	—	.26	Black	.29	.25	.19
155249	JVP	KRS-3550-BK	5	2	50 @ 12	.24	.14	.15	—	—	.27	Brown	.39	.35	.29
155256	JVP	KRS-3550-WH	5	2	50 @ 12	.24	.14	.15	.03	—	.26	White	.39	.29	.29
153252	JVP	SDT620K	1	4	50 @ 12	.24	.24	.15	.06	.17	.25	Black	.35	.29	.25
153251	ESW	TL1105-A	1	4	50 @ 12	.24	.24	.15	.06	.17	.25	Black	.29	.25	.19
155380	JVP	KRS-1273B♦	6	4	50 @ 12	.47	.47	.14	.14	.17	.53	Brown	.45	.39	.35
162886	OMN	B3F-1000	1	4	50 @ 24	.24	.24	.13	.03	.17	.25	White	.39	.35	.29
2076261	OMN	B3E-1100-Red*	7	4	50 @ 24	.24	.24	.19	.07	.17	.25	Red	✻	.12	.09
2076287	OMN	B3E-1300-Green*	7	4	50 @ 24	.24	.24	.19	.07	.17	.25	Green	✻	.15	.09
1953575	OMN	B3F-3122	8	4	50 @ 24	.29	.29	.25	.06	.17	.28	Gray	✻	.19	.15
2076252	ITT	KSC121JB	9	4	50 @ 32	.24	.24	.10	—	.15	.26	Gray	✻	.19	.15
583461	C&K	KSA0V311	8	4	50 @ 50	.32	.31	.23	.04	.30	.20	Green	✻	.19	.15
587180	C&K	KSL0V311	10	4	50 @ 50	.37	.32	.24	.22	.20	.30	Green	.29	.25	.19

* Illuminated   ♦ See switch caps below

Tactile and Pushbutton Switch Caps

155409 | 2202132 | **NEW** MARKED IN PINK

Part No.	⊛Mfr.	Cross Ref. No.	Description	Dimensions	Material	For Use With	1	10	100
155409	JVP	KRS-CAP-B	Round	.50"L x .25"W x .149"SqID	Plastic	P/N 155380	$.29	$.19	$.15
2202132	ALC	C22004	Round	.40"D x .32"H .09"ID	Plastic	P/N 71643	.49	.45	.39

JAMECO ValuePro Magnetic Reed Switches

★ Web Code: UBB

- NO (normally open)
- Contact form: SPST

1951342

Part No.	Cross Ref. No.	Contact Rating	Size (L" x D")	Type	1	10	100
171872	MKA14103	0.5A @ 100VDC	0.53 x 0.1	Axial	$1.49	$1.29	$1.09
1951342	MKC-27103	1.0A @ 220VDC	2.24 x 0.1	Axial	1.95	1.75	1.49

GC C&K Magnetic Proximity Switches

★ Web Code: SPS

- Current rating:
  0.5A @ 20VAC/VDC; 0.08A @ 120VAC,
  P/N 588131: 30VAC @ .3A

617545 | 588131

Part No.	⊛Mfr.	Mfr. Part No.	Contact Form	Actuator	Terminal Type	1	10	100
617545	GCE	35-756	SPDT NO/NC	Use magnet	Screw term., 1/4" gap, surface mount	$6.95	$6.25	$5.59
588131	C&K	MPS45WGW	SPST NO	Use magnet	Lead wires, 22AWG, 12"L	6.95	6.25	5.59

Switchcraft Cord-Switch®

★ Web Code: CSH

- Max. cable dia.: .375"
- Plastic insulation
- Contact form: SPDT off-(on)
- Button color: red
- Die-cast zinc plated housing
- 1-C switching circuit
- Copper alloy plated switch body and insert bushing

Part No.	Mfr. Part No.	1	10	50
297502	ED903	$15.95	$14.49	$12.95

seeed studio PRI Motion Sensor

This highly integrated module is most commonly used for motion and entry detection. It is compatible with microcontrollers or other DC loads. Can detect motion up to 7.5 feet away.

NEW MARKED IN PINK

- Application: switch, motion sensor, thief-guarding system, industrial automation

Part No.	Description	Price
2217713	4.5~20VDC input voltage	$9.95

Incremental Encoders

★ Web Code: ECR

- SPST push ON momentary
- Insulated shaft
- Vertical through-hole PC terminals
- Rotational life: 15,000 cycles minimum
- Closed circuit resistance: 3Ω max.

Part No.	Mfr.	Size	Detents	1	10
2123531	Parallax	6mm	16	$6.95	$6.25
2184341	Alpha	11mm	30	2.25	2.09
2184368	Alpha	12mm	12	1.49	1.25
776386	Bourns	12mm	24	1.19	1.09
2184333	Alpha	16mm	24	2.69	2.25

Temperature Switch

- SPST-NC (Normally-Closed)
- Contact current: 5A
- PCB mount
- Contact voltage: 120V
- 1.64"L leads
- Operational life: 100,000 cycles
- Contact resistance: 50MΩ or less
- Temp.: 75°C (167°F)
- UL/CSA approved

Part No.	Mfr. Part No.	1	10	100
159636	7AM-202A	$.79	$.69	$.59

NOQU Capacitive Touch Switch

- 1.7µA @ 1.8V to 80µA @ 5V
- Auto calibrate on power up for panel/overlay thickness (up to 0.4")
- No moving parts, can be mounted behind wood, platic, glass, fabric, etc.
- Use for kiosk control panel, interactive art, industrial control panel or props

Part No.	Mfr. Part No.	Size	1	5
2135806	RK-150	2" x 2"	$12.95	$11.95

JAMECO ValuePro Voltage Selector Switch

- Type SWZ 6-position, panel mount
- Series – parallel connection
- Contact resistance: <10mΩ
- Combination solder and quick disconnect terminals
- UL rated10A @ 250V, and CSA rated 6.3A @ 250V
- Insulation resistance: 10MΩ @ 500VDC/1 min.

Part No.	Cross Ref. No.	1	10	100
2154943	0033.3504	$5.95	$5.39	$4.79

Centrifugal Force Switch

- Contact rating: 0.4VA (max.) @ 20VAC or 20VDC
- Normally open (NO)
- Triggers @ 1.5g (min.) to 5g
- Dielectric strength: 500VDC min. for 1 min.
- Insulation resistance:1000MΩ (min.)
- Applications: rotational devices, tire centrifugal force detection, direction or axis motion, motion control
- Life: 100,000 cycles (typical)

Part No.	Mfr. Part No.	1	10	100
2126563	RV-RUG-00-000-BB	$.75	$.65	$.55

30° Rolling-Ball Tilt Switch

- Differential angle: 30° max
- Max. switch rating: <6mA/24VDC
- Electrical life endurance: >50,000 cycles
- Terminal: copper coated with gold

Part No.	Mfr. Part No.	1	10
2158012	107-2010-EV	$2.95	$2.59

Reed Alarm Switch

- Housing: white ABS
- Contact rating: DC 100V/0.5A
- Standard type magnetic switch: NO & NC
- Mounting w/ screws or double-sided tape

Part No.	Size (in.)	1	10
2131143	2.5 x 0.5 x 0.5	$7.95	$6.95

⊛ ALP = ALPS Electric | ALC = Alcoswitch | C&K = C&K Switches | ESW = E-Switch Inc. | GCE = GC Electronics | ITT = ITT Cannon | JVP = Jameco ValuePro | OMN = Omron | PAN = Panasonic

Electromech

OMRON **HAMLIN** **FUJITSU** **Small PC Mount Relays**

★ Web Code: SAV

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

NEW
MARKED IN PINK

• Mechanical life: 10 million operations • Electrical life: 100,000 operations • Dielectric strength: 1500V$_{RMS}$ (between contact and coil)

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9 Fig. 10 Fig. 11 Fig. 12 Fig. 13

Fig. 14 Fig. 15 Fig. 16 Fig. 17 Fig. 18 Fig. 19 Fig. 20 Fig. 21 A B C D E

F G H I J K L M N O P

Q R S T U V W X Y Z AA
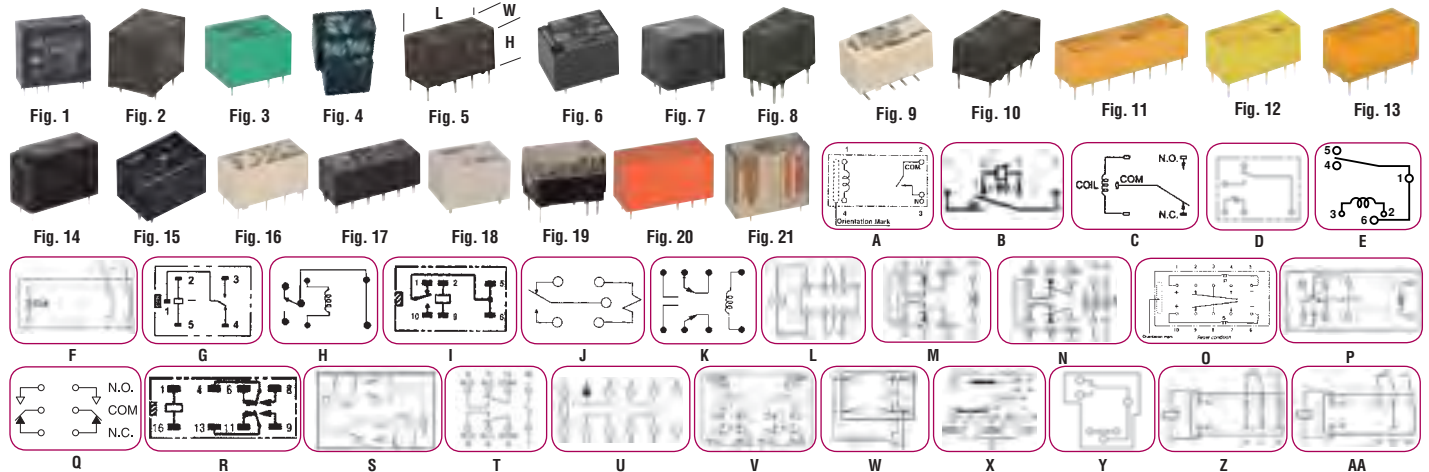
Part No.	Manufacturer	Product No.	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Current	Contact Voltage	Pins	Dimensions (L" x W" x H")	Pricing		
												1	10	50
1860070	Hamlin	HE3621A0500#		1B	SPST-NO	5VDC	500	1A	200VDC	4	.75 x .19 x .30	$1.75	$1.49	$1.25
2089694	Tyco	1-1393194-5	T77S103-12	2A	SPST-NO	12VDC	720	3A	250VAC/30VDC	4	.72 x .40 x .57	1.49	1.25	1.09
2210861	Omron	G6C-2114P-US-DC12	—	15††	SPST-NO/NC	12VDC	720	8A	250VAC/30VDC	6	.78 x .59 x .59	4.95	3.95	3.49
2077378	Fujitsu	FBR161NED006-WB	—	2C	SPST	6VDC	100	10A	120VAC/30VDC	5	.85 x .63 x .63	1.95	1.75	1.49
2167550	Fujitsu	FBR562ND12-N*	—	18V	SPST	12VDC	170	60A	14VDC	10	1.0 x .78 x .64	1.95	1.75	1.49
843171	Panasonic	JS1A-24V	—	7C	SPST	24VDC	1600	10A	250VAC/100VDC	4	.87 x .63 x .63	1.49	1.25	1.09
2179551	Nais/Panasonic	RK1-L2-5V	—	5X	SPDT	5VDC	62.5	.5A	30VDC	10	.80 x .44 x .36	2.95	2.59	2.29
187151	Omron	G5LE-1DC5	—	2G	SPDT	5VDC	63	10A/8A	120VAC/30VDC	5	.90 x .65 x .75	1.75	1.49	1.25
843155	Panasonic	JS1-5V	T7C55D-05	6C	SPDT	5VDC	69.4	10A/5A	250VAC/100VDC	5	.87 x .63 x .63	1.25	1.09	.99
174450	Rayex	LU-5	T81H5D215	7H	SPDT	5VDC	125	1A/2A	120VAC/24VDC	6	.60 x .40 x .45	1.75	1.49	1.25
760616	Panasonic	DS1E-S-DC5V	—	7P	SPDT	5VDC	125	3A	250VAC/220VDC	5	.59 x .39 x .37	3.95	3.59	3.29
187240	Omron	G5V-1-DC5	T5C-105L3H	8I	SPDT	5VDC	166.7	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.95	2.59	2.29
2131805	Fujitsu	FBR211AD006M	—	19W	SPDT	6VDC	80	.5A/1A	120VAC/28VDC	6	.59 x .40 x .41	1.09	.99	.85
2159197	Rayex	LEG-9F	—	7J	SPDT	9VDC	225	15A	125VAC/24VDC	5	.73 x .59 x .61	1.75	1.49	1.25
2188457	CIT Relay	WJ115F11C12VDCS6.9	—	4Y	SPDT	12VDC	160	30A	240VAC/30VDC	5	1.25 x 1.06x .80	1.25	1.09	.99
2155081	ValuePro	895-1C-S-12VDC	—	6F	SPDT	12VDC	225	20A	14VDC	5	.61 x .47 x .54	.99	.89	.79
2201543	Schrack	RP419012	—	21AA	SPDT	12VDC	270	8A	250VAC	5	1.14 x .50 x 1.0	1.25	1.09	.99
2197636	American Zettler	AZ8	AC8-1CH-12DE	1C	SPDT	12VDC	320	6A	300VAC/150VDC	5	.84 x .64 x .57	1.25	1.09	.99
144186	Velleman	JZC-22F	VR15M121C	7J	SPDT	12VDC	337	15A	120VAC/28VDC	5	.80 x .64 x .80	1.49	1.25	1.09
172937	Nais (Aromat)	JS1-12V	T72M5D121-12	6C	SPDT	12VDC	400	10A/5A	125VAC/24VDC	5	.85 x .62 x .63	1.49	1.25	1.09
2179471	Hongfa	HF3FF-012-1ZST	—	6C	SPDT	12VDC	400	10A	125VAC/28VDC	5	.74 x .59 x .60	1.09	.99	.89
174432	Rayex	LEG-12F	T7CS5D12	7J	SPDT	12VDC	400	15A	120VAC/24VDC	5	.76 x .62 x .60	1.95	1.75	1.49
1937612	Porter & Brumfield	T75S5D112-12	—	3E	SPDT	12VDC	652	10A/8A	240VAC/24VDC	5	.18 x .39 x .59	1.75	1.49	1.25
184461	Omron	G5V-1-DC12	—	8I	SPDT	12VDC	960	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.49	2.25	1.95
843201	Aromat/Panasonic	JW1FSN-DC24	RTB14024F	14D	SPDT	24VDC	1100	10A/10A	250VAC/30VDC	5	1.11 x .49 x .78	2.49	2.25	1.95
2201551	Schrack	RT314024	—	20Z	SPDT	24VDC	1440	16A	250VAC	5	1.14 x .50 x .64	1.49	1.25	1.09
2133528	Siemens	V23042-C2108-B101	—	16U	DPDT	3VDC	90	5A	220VAC/250VDC	8	.80 x .40 x .42	1.49	1.25	1.09
2202351	Panasonic	TN2-4.5V	—	14U	DPDT	4.5VDC	145	1A	125VAC/110VDC	10	.55 x .22 x .39	3.95	3.59	3.29
2095390	ValuePro	V23079A1011B301	—	5L	DPDT	4.5VDC	145	2A	250VAC/220VDC	10	.57 x .28 x .39	1.25	1.09	.99
842996	Panasonic	DS2Y-S-DC5V	—	2C	DPDT	5VDC	125	2A/3A	250VAC/220VDC	8	.78 x .39 x .37	2.49	2.25	1.95
842953	Panasonic	DS2E-S-DC5V	—	11M	DPDT	5VDC	125	2A	125VAC/30VDC	8	.79 x .39 x .39	3.95	3.59	3.25
140290	Panasonic	TQ2-L2-5V†	—	10U	DPDT	5VDC	178	1A	125VAC/110VDC	10	.55 x .35 x .20	3.95	3.59	3.29
843649	Panasonic	TXA2SA-5V	—	9K	DPDT	5VDC	178	2A	30VDC	8	.59 x .29 x .22	2.95	2.59	2.39
2158338	ValuePro	TC-5VDC-C14	—	5L	DPDT	5VDC	178	2A	220VDC	8	.59 x .30 x .33	2.49	2.25	1.95
2081650	NEC	EC2-5NJ	—	5K	DPDT	5VDC	178	2A	220VAC/220VDC	8	.59 x .30 x .37	2.49	2.25	1.95
2120516	Panasonic	DS2Y-SL2-DC6V†	—	12N	DPDT	6VDC	200	2A	250VAC/220VDC	10	.79 x .39 x .37	1.95	1.75	1.49
2077386	Fujitsu	AL-D9W-K	—	10O	DPDT	9VDC	45	.5A/1A	125VAC/30VDC	10	.55 x .35 x .20	2.95	2.59	2.29
2135726	NEC	EP2-3NIST*	—	15S	DPDT	12VDC	225	25A	30VDC (max.)	10	.94 x .64 x .63	3.95	3.59	3.39
174378	Rayex	LM2-12D	RKA5DZ12	1P	DPDT	12VDC	270	5A	250VAC/30VDC	8	1.2 x .48 x 1.0	3.95	3.59	3.29
187258	Omron	G5V-2-DC12	—	5Q	DPDT	12VDC	288	.5A/2A	125VAC/30VDC	8	.81 x .40 x .45	3.49	3.19	2.79
842873	Panasonic	DS2E-ML2-DC12V†	—	13Q	DPDT	12VDC	400	2A	250VAC/220VDC	10	.79 x .39 x .39	4.95	4.49	3.95
842902	Panasonic	DS2E-S-DC12V	—	13R	DPDT	12VDC	720	2A	250VAC/220VDC	8	.79 x .39 x .39	2.95	2.59	2.29
2202685	Panasonic	AGN200A12	—	1U	DPDT	12VDC	1030	1A	125VAC/110VDC	8	.41 x .35 x .22	1.95	1.75	1.49
2139049	Omron	G5V-2-HI-DC24	—	5R	DPDT	24VDC	2880	.83A	125VAC/125VDC	8	.81 x .40 x .45	1.49	1.25	1.09
2133499	SDS/Relais	S3-12V	—	17T	4PST	12VDC	720	4A	250VAC/30VDC	12	1.11 x .48 x .41	2.95	2.59	2.29

*Automotive, dual relay, separate type   # SIP package   † Latching   †† See schematic on Web datasheet.

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
NAME BRANDS HOUSE BRANDS SPECIAL BUY

Electromech

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OMRON crydom EGE DC/AC and DC/DC Solid State Relays

★ Web Code: DBA

164988 (Fig. 1) 153059 (Fig. 2) 162342 (Fig. 3) 186992 (Fig. 4) 176698 (Fig. 5) 176648 (Fig. 6) 2144737 (Fig. 7)

Part No.	Mfr.	Mfr. Part No.	Control Voltage	Type	Contact Form	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Dimensions (L" x W" x H")	Pricing 1	10	50
Solid State Relays DC/AC Type															
164988	Sharp	S101S02	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	$3.95	$3.59	$3.29
164996	Sharp	S202TA1	1.2VDC@20mA	DC/AC	SPST	200VAC	2A	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	3.95	3.59	3.25
153059	Rayex	RSR2ND-A24003	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder lead	UL	1.7 x 0.4 x 2.0	9.95	8.95	7.95
162342	Excel	ESR51024-010	3-32VDC	DC/AC	SPST	240VAC	10A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	19.95	17.95	15.95
186992	Omron	G3NA-210B-DC5-24	5-24VDC	DC/AC	SPST	240VAC	10A	4	4	Screw terminal	UL/CSA	1.7 x 1.1 x 2.3	24.95	22.49	19.95
2179462	Gordos	M-OAC5AH	2.75-8VDC	DC/AC	SPST	240VAC	20A	4	2	Solder lead	UL/CSA	1.7 x 1.0 x 0.4	6.95	6.25	5.59
162369	Excel	ESR51024-025	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	22.95	20.95	18.95
175214	Kyoto	KB20C02A	3-32VDC	DC/AC	SPST	280VAC	2A	4	5	Solder lead	CE	1.4 x 0.3 x 1.5	7.95	6.95	6.25
176698	Kyoto	KB20C06A	3-32VDC	DC/AC	SPST	280VAC	6A	4	5	Solder lead	CE	1.4 x 0.3 x 0.9	10.95	9.95	8.95
176719	Kyoto	KD20C40AX	4-32VDC	DC/AC	SPST	280VAC	40A	4	6	Screw terminal	UL/CE	1.7 x 0.9 x 2.3	19.95	17.95	15.95
Solid State Relays DC/DC Type															
172591	Kyoto	KF0602D	3-32VDC	DC/DC	SPST	60VDC	2A	4	5	Solder lead	CE	1.4 x 0.3 x 0.9	$9.95	$8.95	$7.95
175222	Kyoto	KF0604D	3-32VDC	DC/DC	SPST	60VDC	4A	4	5	Solder lead	CE	1.5 x 0.3 x 0.9	9.95	8.95	7.95
2144737	Teledyne	C47F-20	3.8-32VDC	DC/DC	SPST	90VDC	1A	4	7	DIP-14	—	.75 x .25 x .17	6.95	6.25	5.59
176648	Kyoto	KG1005D	3-32VDC	DC/DC	SPST	120VDC	5A	4	6	Screw terminal	CE	2.3 x 1.7 x 0.9	22.95	20.95	18.95
176655	Kyoto	KG1010D	3-32VDC	DC/DC	SPST	120VDC	10A	4	6	Screw terminal	CE	2.3 x 1.7 x 0.9	24.95	22.49	19.95

CLARE Panasonic OptoMOS® Solid State Relays

Applications:
Telecom: Tip/Ring circuits, modem switching
Instrumentation: Multiplexers, data acquisition

1583041   2202714

A   B   C   D

★ Web Code: WDX
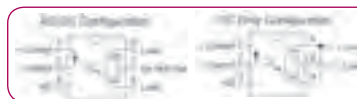
Part No.	Mfr. Part No.	Package	Description	Schem.	Load Voltage (V)	Current Handling (mA)	On-Resistance (Ω)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (µA)	Switching Speed (on/off) (ms)	Pricing 1	10	50
1583041	LCA710	DIP-6	Single pole, 1-Form-A	A	60	1000	0.5	3750	10	1	2.5/0.25	$4.95	$4.49	$3.95
991220	AQV252G	DIP-6	Single pole, 1-Form-A	D	60	2500	0.8	1500	5	1	1.1/0.25	5.95	5.39	4.79
2202714	AQY225R1SX	SOP-4	Single pole, 1-Form-A	A	80	350	1.2	30	50	0.01	.25/0.2	3.95	3.59	3.29
1582997	LCA110	DIP-6	Single pole, 1-Form-A	B	350	120	35	3750	2	1	3/3	2.25	1.95	1.75
1582903	LAA110	DIP-8	Dual single pole, 1-Form-A	C	350	120	35	3750	5	1	3/3	4.49	3.95	3.59
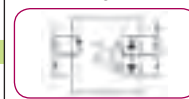
Potter & Brumfield Equivalent Plastic-Enclosed Construction Relays

JAMECO ValuePro   ★ Web Code: PBB

VF Series

- Dielectric strength: 500VDC (between contact & coil)
- Operating temp.: -35°C to +85°C
- Contact current: 40A
- Coil voltage: 12VDC
- Terminal type: quick connect
- Normally open (NO)
- Dimensions: 1.1"L x 1.1"W x 1.0"H
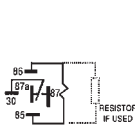
Schematic 1   Schematic 2   171433 (Fig. 1)   171442 (Fig. 2)   171460 (Fig. 3)

RESISTOR IF USED

Part No.	Mfr.	Product No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Schematic	Pins	Pricing 1	10	50
1810179	Rayex	LD1A-12BP*	—	2	SPST-NO	12VDC	80	1	4	$1.75	$1.49	$1.35
171460	Rayex	LD1A-12F	—	3	SPST-NO	12VDC	80	1	4	2.95	2.59	2.39
171442	Rayex	961A-1A12D†	—	2	SPST-NO	12VDC	80	1	4	2.95	2.59	2.39
171522	Rayex	LD5F	VF4-45D11	3	SPDT	5VDC	14	2	5	2.49	2.25	1.95
148583	Rayex	LD12F	VF4-85F11	1	SPDT	12VDC	78	2	5	2.95	2.59	2.29
2094135	Sanyou	SARL-112D	VF4A-15F11	2	SPDT	12VDC	80	2	5	4.95	4.49	3.95
2094151	Sanyou	SARL-112DF	VF45A-45F11	1	SPDT	12VDC	80	2	5	3.95	3.59	3.39
171433	ValuePro	961A-1C-12DM	VF4-81F11	1	SPDT	12VDC	90	2	5	3.95	3.59	3.39
2094186	Sanyou	SARL-125D	VF4A-15F11	2	SPDT	24VDC	320	2	5	3.95	3.59	3.19
2094194	Sanyou	SARL-124DF	VF4A-45H11	1	SPDT	24VDC	320	2	5	4.95	4.49	3.95

* PCB terminals   † Comes with a removable clip

REED TYPE RERAYS

HAMLIN   2202731

Part No.	Description	1	10	50
2202722	5V@ .5A, SPST, 4-pin	$1.95	$1.75	$1.49
2202731	5V @ .25A, SPDT, 5-pin ...	2.95	2.59	2.29

Reed Type Relay

JAMECO ValuePro

- Contact form: SPST-NO
- Terminal type: PCB solder
- Contact voltage: 120VAC/60VDC
- Coil voltage @ contact rating: 12V @ 11.4mA
- Dimensions: 1.0"L x 0.37"W x 0.38"H

Part No.	Cross Ref. No.	Pins	1	10	50
111448	BR-1050	4	$1.95	$1.75	$1.49

Relay Socket with Coil Diode

JAMECO ValuePro

VF Series

- 14 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire (7.5" length)
- Contact voltage/current: 12V/20A
- Diode coil suppression
- Use with P/N 148583 (left)

Part No.	Product No.	1	10	50
170624	RSD03	$2.49	$2.25	$1.95

Aromat EGE KEST HAMLIN — DIP & SIP Relays

★ Web Code: QAN

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant

106463   1860088   2081377   Fig. 1   Fig. 2   A   B   C
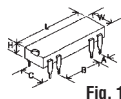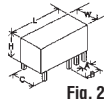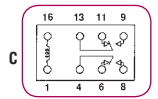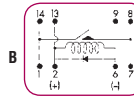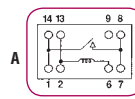
Part No.	Manufacturer	Product No.	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Dimensions (L" x W" x H")	Leads (A" x B"x C")	Pricing 1	10	100
138431	Excel	2D1A05	1B	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.77 x .30 x .22	.10 x .40 x .30	$3.25	$2.95	$2.59
106463	Excel	201A05	1A	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	2.95	2.59	2.29
1860088	Hamlin Breed	HE3621A0510	—	SPST-NO	5VDC	500	200VDC	0.5A	4†	—	.75 x .20 x .30	.20 x .60	1.49	1.25	1.09
2202722	Hamlin Breed	HE751A0500	1A	SPST-NO	5VDC	500	300VDC	0.5A	4	37162	.77 x .28 x .22	.10 x .40 x .30	1.95	1.75	1.49
106472	Excel	201AIZ	1A	SPST-NO	12VDC	1000	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	2.49	2.25	1.95
2202731	Hamlin Breed	HE3321C0500	1A	SPDT-CO	5VDC	125	175VDC	0.25A	5	—	.95 x .27 x .29	.10 x .20 x .01	2.95	2.59	2.29
139977	ValuePro	RSB5S	2C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37373	.79 x .39 x .37	.20 x .40 x .30	2.95	2.59	2.39
2081414	KEST	KS2E-M-DC5	2C	DPDT	5VDC	128	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.75	2.49	2.25
173914	Aromat	DS2YE-S-DC5V	2C	DPDT	5VDC	125	125VAC/100VDC	0.5A/1.25A	8	37402	.79 x .38 x .44	.18 x .28 x .29	2.49	2.25	1.95
2081377	KEST	KS2E-M-DC12	2C	DPDT	12VDC	708	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.25	1.95
99311	Aromat (NAIS)	DS2Y-S-DC12V	2C	DPDT	12VDC	720	110VAC/30VDC	0.3A/1A	8	37373	.79 x .40 x .43	.20 x .40 x .30	2.95	2.59	2.39
2081406	KEST	KS2E-M-DC24	2C	DPDT	24VDC	1440	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.95	2.59	2.39

† SIP

JAMECO ValuePro P&B — General Purpose Power Relays

★ Web Code: GPR   2167453   611928   137358   2208147   552462

For complete specifications visit www.Jameco.com

Part No.	Mfr.	Product No.	Contact Form	Rating	Contact Rating	Coil Resis.	Contact Type	1	10	50
2167453	Panasonic	JTVIAS-PA-12	SPST	12VDC @ 83mA	30A, 277VAC	144Ω	PCB terminals	$1.49	$1.25	$1.09
2092981	Omron	G8P-1A4P	SPST-NO	24VDC @ 36mA	30A, 250VAC	660Ω	PCB terminals	2.95	2.59	2.29
611928	P&B	T9AP1D52-48-03	SPST-NO	48VDC @ 21mA	30A, 240VAC	2304Ω	Quick connect: .187" for coil/.250" for contacts	4.95	4.49	3.95
137358	ValuePro	953-1C12DM-R	SPDT	12VDC @ 77mA	20A, 240VAC/28VDC	155Ω	Quick connect: .110" for coil/.250" for contacts	3.25	2.95	2.59
2208147	ValuePro	H2R-72ABTAA	DPST-NO	12VDC @ 140mA	30A, 277VAC	23Ω	.250" quick connect	10.95	9.95	8.95
2208155	ValuePro	H2R-72ACTAA	DPST-NO	24VDC @ 70mA	30A, 277VAC	310Ω	.250" quick connect	10.95	9.95	8.95
552462	P&B	PRD-7AG0-120	DPST-NO	120VAC @ 85mA	30A, 240VAC	290Ω	Screw: #8-32 for main; #6-32 for contacts	33.95	30.95	28.95

JAMECO ValuePro — General Purpose Blade and Octal Relays

OMRON P&B   CSA UL   ★ Web Code: ACF

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications

Fig. 1   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6

Part No.	Mfr.	Product No.	Fig.	Contact Form	Coil Voltage	Contact Rating	Coil Resis. (Ω)	Coil Current (mA)	Mating Socket Standard	DIN Rail	Pricing 1	10	50
2119996	Omron	G2R-1-E-ASI †	1	SPDT	24VDC	16A @ 250VAC; 16A @ 30VDC	1100	21.8	—	—	$2.95	$2.59	$2.39
2093079	Omron	LY2F-DC12	1	DPDT	12VDC	10A @ 24VDC; 10A @ 110VAC	160	75	PT08	175531	5.95	5.39	4.79
139766	Rayex	MK2P-I	2	DPDT	12VDC	10A @ 28VDC; 10A @ 240VAC	120	10	141145	141145	7.95	7.29	6.59
282378	P&B	KRPA-11DG-12	3	DPDT1	12VDC	10A @ 240VAC	120	100	282132	—	16.95	15.95	14.95
172719	ValuePro	LB2-12DS-R	4	DPDT	12VDC	12A @ 30VDC; 12A @ 240VAC	160	75	175531	282191	5.95	5.49	4.95
282255	P&B	K10P-11D15-12	5	DPDT	12VDC	15A @ 30VDC; 15A @ 120VAC	160	75	282191	282191	12.95	11.49	9.95
175565	ValuePro	LB2-24DS-R	4	DPDT	24VDC	12A @ 30VDC; 12A @ 240VAC	650	37	175531	282191	6.95	6.25	5.59
175573	ValuePro	LB2-110ASR	4	DPDT1	110VAC	12A @ 30VDC; 12A @ 240VAC	3,900	28	175531	282191	6.95	6.25	5.59
139740	Beta	BTA6-2C-J-CW-120VAC	2	DPDT	120VAC	10A @ 28VDC; 10A @ 240VAC	1,700	122	141145	141145	7.95	7.29	6.59
282247	P&B	K10P-11A15-120	5	DPDT	120VAC	15A @ 30VDC; 15A @ 120VAC	3,900	11	282191	282191	12.95	11.95	10.95
2179809	Omron	G7J-4A-P AC200/240	6	4PST(No)	240VAC	25A @ 30VDC; 25A @ 220VAC	—	10.8	—	—	7.95	6.95	6.25
2167461	Omron	MY4-DC12	1	4PDT	12VDC	3A @ 30VDC; 3A @ 250VAC	160	75	2167470	2167470	6.95	6.25	5.59
291507	ValuePro	LB4H-12DS-R	4	4PDT	12VDC	5A @ 30VDC; 5A @ 240VAC	160	75	175557	175557	4.95	4.49	3.95
2167496	IDEC	RY4S-U	1	4PDT	12VDC	5A @ 30VDC; 5A @ 240VAC	160	75	2167470	2167470	6.95	6.25	5.59
175602	ValuePro	LB4H-24DS-R	4	4PDT	24VDC	5A @ 30VDC; 5A @ 240VAC	650	37	175557	175557	5.95	5.39	4.79
175611	ValuePro	LB4H-110AS-R	4	4PDT1	110VAC	5A @ 30VDC; 5A @ 240VAC	3,900	28	175557	175557	5.95	5.39	4.79

* For sockets see below   † PCB   1 = Silver-cadmium oxide, no lamp

JAMECO ValuePro P&B — Blade and Octal Relay Sockets

★ Web Code: TEM

141145/175531/282191/282132: 8-pin DPDT
2167470 /175557: 14-pin 4PDT

141145   2167470   282191   282132

Part No.	Mfr.	Product No.	Relay Series	Type	1	10	50
141145	Beta	PF-083A	BTA1	Combo†	$3.95	$3.59	$3.29
175531	ValuePro	PTF08A-A	K10	Combo†	4.95	4.49	3.95
2167470	Omron	PYF14A-E	MY	Combo†	3.95	3.59	3.29
282191	P&B	27E895	K10	DIN Rail	7.95	6.95	6.25
282132	P&B	27E122	KRP/KRPA	Standard	6.95	6.25	5.59
175557	ValuePro	PYF14A-A	KHUA	DIN Rail	3.95	3.59	3.29

† Combo: DIN rail or screw terminal

NEW SPECIAL BUY RELAYS

2202714   2202351

Part No.	Description	1	10	50
2202714	1.5VDC @ 3A, SPST-NO ...	$3.95	$3.59	$3.29
2202351	4.5VDC @ 1A, DPDT	3.95	3.59	3.29
140290	5VDC @ 1A, DPDT	3.95	3.59	3.29
760616	5VDC @ 3A, SPST-NO/NC ..	3.95	3.59	3.29
2202685	12VDC @ 1A, DPDT-NO/NC	1.95	1.75	1.49
2210861	12VDC @ 8A, SPST-NO/NC	4.95	3.95	3.49
843171	24VDC @ 10A, SPST-NO	1.49	1.25	1.09

Electromech

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3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Electromech

Inductive Proximity Switch Sensors
Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output
- Current consumption: 10mA max.
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- 6' long cable
- LED status indicator
- Switching frequency: 1.5kHz
- Fast response
- Pre-tinned pigtail
- Short-circuit protected

167020 **155547** **248858**

★ Web Code: IPS

Part No.	Mfr. Part No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Dimensions (L x Dia.)	Mounting Hole (ins.)	Pricing 1	5	25
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	$21.95	$19.95	$17.95
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	15.95	14.49	12.95
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	21.95	19.95	17.95

Digital Hall Effect Magnetic Proximity Sensors

Flange Mount • Applications: door position sensing, flow sensing, pedal switch
- Capable of millions of operations
- Reverse battery protection to -24VDC
- Output saturation voltage max.: 400mV
- Operating voltage range: 4.5-24VDC
- Meets IEC529 IPX5 for water protection
- Output wire: 3-wire sink

★ Web Code: CCC

513252

Part No.	Mfr. Part No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Function	Pricing 1	5	25
513252	MP101401	5.2	20	185 (south)	60 (south)	Unipolar switch	$6.95	$6.25	$5.59
513261	MP102103	12	25	300 (north)	195 (north)	Switch	7.95	6.95	6.25

Hall Effect Magnetic Proximity Sensor

- With Snap-Fit Mount
- Operating voltage range: 4.75-24VDC
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Output saturation voltage max.: 400mV
- Output: 3-wire sink
- Immune to dust, dirt and moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Solid state reliability • Reverse polarity protection to -24V

★ Web Code: CCC

Part No.	Mfr. Part No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing 1	5	25
513244	MP101301	4	25	300	60	24AWG x 1m	$6.95	$6.25	$5.59

Magnetic Proximity Sensor Cylindrical Plastic Housing

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Resistant to dirt and moisture
- Operating temp. range: -40°C to 105°C
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.

513308 **482417**

★ Web Code: CCC

513359

Part No.	Mfr. Part No.	Contact Form	Power (W)	Switching Volt. Max. (VDC)	Switching Curr. Max.(A)	Op. Time Typical (ms)	Pricing 1	10	50
513308	MP201701	SPST NO	10	175	0.5	0.5	$3.95	$3.59	$3.29
482417	AS201901*	SPST NO	10	175	0.5	0.6	3.95	3.59	3.29
513359	MP201901	SPST NO	10	175	0.5	0.6	3.95	3.59	3.29

*Actutator to be used with 513359
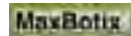
High Performance Sonar Range Finders

MaxBotix is a leader in ultrasonic range finder products for standard, industrial and outdoor applications. These products can detect objects from as close as 6" all the way to 35' depending on the model.

★ Web Code: MXB   Fig. 1   Fig. 2

Part No.	Mfr. Part No.	Fig.	Max. Beam Width†	Detection Range (ft.)	Data Output*	Pricing 1	5
2157335	MB1040	1	2 feet	1-21.16	PW, AV, SD	$27.95	$24.95
2157351	MB1240	2	3 feet	1-25.1	PW, AV, SD	39.95	35.95
2157327	MB1010	1	5 feet	1-21.16	PW, AV, SD	29.95	26.95

*PW = pulse-width; AV = analog volt.; SD = serial digital; †Beam characteristics are approximate

Environmental Sensors

These special sensors provide very specific functions regarding its environmental situation. The pressure sensor can be used for wearable technology like VR gloves. As one of the first CO₂ sensors, it determines the concentration of CO_2 in the air by dropping its output voltage as more CO_2 accumulates.

NEW MARKED IN PINK **2210386** **2213270**
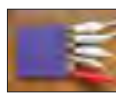
Part No.	Mfr.	Description	Price
2210386	Images SI	Pressure sensor	$17.95
2213270	DFRobot	CO₂ sensor	59.95

Solid State Digital Position Sensors

- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- 3-pin SIP package • Output type: sink
- Output volt./curr.: 40mV/20mA max.
- Supply current: 10mA max.
- Supply voltage:
  1915915/1915886: 3.8VDC to 30VDC
  1915940: 3VDC to 6.5VDC

1915915

★ Web Code: DPS

Part No.	Mfr. Part No.	Type	1	10	100
1915915	SS466A	Latching	$1.25	$1.09	$.95
1915940	SS49E	Sourcing	1.95	1.75	1.49
1915886	SS441A	Unipolar	1.25	1.09	.95

Hall Effect Sensors

★ Web Code: REB

- Supply voltage range: 4.5V-24V
- Supply current: 9mA max.
- Operating temperature up to 150°C

1871879 **1915835**

Part No.	Mfr. Part No.	B_{OP}/B_{RP}* @ 25°C	1	10
1871879	OH180U	180/140 gauss	$2.95	$2.59
1915835	SS41	40/-40 gauss	1.09	.99
2201906	HAL115UA-C	12/-12 gauss	.99	.89

*B_{OP} = Magnetic Operating Point; B_{RP} = Magnetic Release Point

Gear Tooth Speed Sensor
Commercial Grade Hall Effect

- Operating voltage range: 4.5-24VDC
- Output type: sink
- Output current: 25mA max.
- Supply current: 6mA max.
- Barrel length: 1.0"
- Output voltage: 400mV max.
- Thread: 15/32" – 32 • Wire: 20 AWG x 1m
- Reverse battery protection from 24VDC
- Operating temperature range: -40°C to 125°C

Part No.	Mfr. Part No.	1	5	25
512401	GS100701	$29.95	$26.95	$23.95

Humidity Sensors

- Linear volt. output vs %RH
- Voltage & current: 4 to 5.8VDC @ 500µA max.
- Accuracy: ±3.5% RH
- Operating temp.: -40°C to 85°C
- 0.10" lead pitch SIP with calibration & data printout
  1860230: 0.05" lead pitch SIP
  1860248: 0.10" lead pitch SIP w/ calibration & data printout

1860230 **1860248**

Part No.	Mfr. Part No.	1	5	25
1860230	HIH-4000-002	$16.95	$14.95	$13.49
1860248	HIH-4000-003	22.95	20.95	18.95

Pressure Sensor

- Differential pressure 0 to 5 psid pressure range
- Max. load pressure: 2X rated pressure
- 1/8" dia. tubing applicable
- Pressure media: non-corrosive gas, non-ionic fluids
- Size: 0.55"L x 0.47"W x 0.28"H

Part No.	Mfr. Part No.	1	5	25
2151161	SCC05DD4	$8.95	$7.95	$6.95

Digital/Analog Distance Sensors

Pololu **PARALLAX**

These sensors are small in size and can be placed just about anywhere on your project.

2136462: 3-pin header connection (included)
2150256: Connects with 3-pin JST connector (P/N 2143881, not included)

★ *Web Code: PDS*

Part No.	Mfr.	Mfr. P/N	Digital/Analog	Detection Range	Res. Time	1	5
2136462	Pololu	1134	Digital	0.8" to 4"	2.56 ms	**$7.95**	**$7.19**
2150256	Parallax	28995	Analog	3.9" to 31.5"	38.0 ms	15.95	14.49
2136454	Sharp	1137	Analog	7.8" to 59"	38.0 ms	16.95	15.49
2143881	Pololu	117	3-pin female JST cable w/ stripped leads			1.25	1.09
2143419	Pololu	1799	3-pin female JST cable w/ 0.1" crimp terminals			1.95	1.75

Arduino Compatible Sensors

liquidware **DFROBOT**

These plug and play sensors are ready for immediate installation and use.

2213270: • Operation voltage:
5V, 7-12V reg. at MCU for heating
2190741: • 2.0VDC to 3.6VDC
• SPI and I2C interface

NEW MARKED IN PINK

★ *Web Code: ACS*

Part No.	Mfr.	Description	1	5
2213270	DFRobot	CO_2 gas sensor, single digital output (MG-811)	**$59.95**	**$56.95**
2190741	Liquidware	3-axis accelerometer ADXL345	9.95	8.95

12-Button Numeric Keypad

JAMECO ValuePro

• Contact resistance: 200Ω max.
• 8-pin .100" header
• Contact rating:
12VDC @ 20mA
• Life test: 1,000,000 cycles per key
• Size: 3.0"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
190562	8-pin header keypad	**$5.95**	**$5.39**	**$4.79**

16-Button Indoor/Outdoor Keypads

• 9-pin .100" headers
• Compatible with MOS, TTL and DTL (10Ω max.)
• Contact rating: 24VDC @ 10mA resistive
• Fully sealed snap-dome contact
• Life test: 3,000,000 cycles per key
• Size (housing): 4.7"W x 1.7"H x 0.4"T
• Recommended connector: P/N 103191 header and P/N 100766 pin, pg 58
2161473: 8-pin access, adhesive backing

Part No.	Description	1	10	100
196171	2x8 matrix keypad	**$14.95**	**$13.49**	**$12.49**
2161473	4x4 membrane keypad	10.95	9.95	8.95
152063	4x4 matrix keypad	16.95	15.49	13.95

16-Button Numeric Keypads

JAMECO ValuePro

• Contact resistance: 200Ω max.
• 8-pin solder pad
• Contact rating: 24VDC @ 20mA
• Life test: 1,000,000 life cycles per key
• 8-pin male header, use for P/N 153702 (straight) or P/N 153728 (right angle)

Part No.	Size (L" x W" x H")	1	10	100
2131055	2.5 x 2.6 x 0.4	**$6.95**	**$6.25**	**$5.59**
169245	3.0 x 2.8 x 0.6	9.95	8.95	7.95

★ *Keypads Online — Enter Web Code XBA*

For Tactile Switches, see page 70

Flex Sensor

• Max. resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
• Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Nominal Res.	Length	1	10
150551	10kΩ	4.5	**$12.95**	**$11.49**

Bidirectional Flex Sensors

• Temperature range: -45°F – 125°F
• Dimensions: 4.5"L x .375"W x .038"T

NEW MARKED IN PINK

Part No.	Mfr. Part No.	Resistance (Ω)	1	5	25
2210335	FLX-01L	1k – 20k	**$9.95**	**$8.95**	**$7.95**
2124867	FLX-01-M	20k – 50k	9.95	8.95	7.95
2210351	FLX-01H	50k – 200k	9.95	8.95	7.95

Circular Knit Stretch Sensor

• Length: 100mm
• Resistance: 200Ω – 2kΩ

NEW MARKED IN PINK

Part No.	Mfr. Part No.	Price
2210378	KSS-01	**$17.95**

Ultrasonic Sensor Sets

JAMECO ValuePro

Motion or Distance Sensing, Transmitter/Receiver Set

• Frequency: 40kHz ±1.0kHz • Aluminum case

★ *Web Code: CAU*

139492: • Capacitance: 2000pF ±20%
• Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
• Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)

2120268: • Capacitance: 1250pF ±20% • Bandwidth: 4.0kHz @ -73dB
• Transmitter sensitivity: 41kHz @ 67dB • Receiver sensitivity: 40kHz @ 67dB (R=3.9kΩ)

136654: • Capacitance: 2000pF ±30%
• Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz
• Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)

Part No.	Product No.	Case Size	Lead Length/Spacing	1	10	100
139492	40TR12B	0.30"H x 0.43"Dia.	0.28"	**$7.95**	**$7.19**	**$6.49**
2120268	EFR40K2	0.47"H x 0.62"Dia.	0.35"	9.95	8.95	7.95
136654	40TR16F	0.47"H x 0.62"Dia.	0.39"	7.95	7.29	6.49

Liquid Level Sensor

JAMECO ValuePro

This liquid level sensor is triggered when water level is either high or low. Black and white are ON and maintained until float is at its lowest, black and red wire is OFF and maintained until float is at its highest.

★ *Web Code: LLS*

Part No.	Description	1	5	25
176250	24VDC	**$8.95**	**$7.95**	**$7.25**
176251	Extra hardware kit	1.25	1.09	.99

Force-Sensing Resistors

Pololu

• Polymer thick film (PTF) optimized for human touch control of electronic devices
• >1MΩ, no force, 100kΩ to >100Ω under pressure
• 0.72" dia. circular pad, 0.5" Dia. sense area
• Can sense applied force from 1 oz. to 22 lbs.
• 1.3" flexible male leads, 0.1" spacing

Part No.	Mfr. Part No.	Size	1	10
2128260	1696	0.72"Dia./.50"Circle	**$8.95**	**$7.95**
2136471	1645	1.72"L x 1.5"W	10.95	9.95

Omni-Directional Electret Condenser Microphone Cartridges

JAMECO ValuePro

Applications: Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
• Max current: 0.5mA • Impedance: >2.2kΩ • Terminals: PC pin leads

★ *Web Code: QBW*

Part No.	Cross Ref. No.	Sensitivity	Frequency (Hz)	Max. Op. Volt.	Stand Op. Volt.	Sensitivity Reduction	S/N Ratio	Size (H x Dia.)	Pricing		
									1	10	100
1950948	AMF-097A40-NB1-LF	-60 ±3dB	50-16,000	10VDC	3.0VDC	-3dB @ 3V	>58dB	.27" x .39"	**$.99**	**$.89**	**$.75**
2202095	F9767AP	-38 ±3dB	20-16,000	10VDC	3.0VDC	-3dB @ 1.5V	>58dB	.26" x .38"	1.09	.99	.89
2188633	AOM-6545P-R	-45±2dB	20-20,000	10VDC	4.5VDC	-3dB @ 3V	>60dB	.26" x .37"	1.09	.99	.85
2126141	EC928P-602	-40±2dB	20-12,000	10VDC	4.5VDC	-3dB @ 1.5V	>758dB	.26" x .38"	1.09	.99	.85
136574	WM-60PC	-54 ±2dB	20-12,000	12VDC	4.5VDC	-3dB @ 3V	>40dB	.30" x .38"	1.09	.99	.85
320179	EM-99	-64 ±2dB	20-12,000	12VDC	4.5VDC	-3dB @ 3V	>40dB	.27" x .39"	.99	.89	.75

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JAMECO ValuePro — **Piezo Buzzers (Annunciators)** — NEW MARKED IN PINK — ★ *Web Code: JPB*

Part No.	Manufacturer	Product No.	Fig.	Tone	Oper. Volt. (V/mA)	Volt. Range	Sound (dB)	Freq. (Hz)	Dimensions (H x Dia.)	Pricing 1	10	100
335557	ValuePro	MSR320	2	Single	3–20/3–16	3 – 20	90	3400	.39" x .91"	$2.49	$2.25	$1.95
1956696	Velleman	SV4/5-S	3	Single	5/25	3 – 6	87	3200	.30" x .47"	3.49	3.15	2.79
336989	ValuePro	11S3120LF-TA	4	Single	1–16/30	12	100	2900	1.35" x 1.71"	3.49	3.15	2.79
1956741	Velleman	SVM06	5	Single	6/20	3 – 7	75	300-500	.91"L x .63"W x .59"H	2.95	2.59	2.39
2173861	ValuePro	20S1060LF-LA	5	Single	6/25	4 – 8	75	400	.91"L x .67"W x .61"H	1.95	1.75	1.49
196357	ValuePro	AL-175	6	Single	12/5.8	3 – 16	86	4000	.30" x .54"	1.95	1.75	1.49
2205245	SoundTech	SEP-2240	6	Continuous	127	3 – 16	70	4100	.30" x .55"	1.95	1.75	1.49
138713	ValuePro	32S4120-PN	6	Single	12/7	3 – 16	80	4000	.30" x .54"	2.25	1.95	1.75
2202925	Murata	PKM33EP-1001	8	Continuous	12/7	3 – 30	70	4000	.29" x 1.25"	1.95	1.75	1.49
2120452	ValuePro	DB-E238	1	Single	12/8	3 – 20	85	2900	.63" x .93"	1.95	1.75	1.49
1956750	Velleman	SVM12	5	Single	12/15	7 – 17	75	300-500	.91"L x .63"W x .59"H	2.49	2.25	1.95
2129721	MG Elec	SBT-1606S	1	Single	12/20	4 – 7	85	2200	.55" x .61"	1.49	1.25	1.09
2173870	ValuePro	20S1120LF-LA	5	Single	12/25	9 – 15	75	400	1.32"L X .67"W x .61"D	1.75	1.49	1.25
2197513	ValuePro	DB-E38	11	Single	12/35	1 – 13	105	2900	1.1" x 1.8"	2.95	2.59	2.39
2192499	ValuePro	MBUZ-24VDC	12	Single	24/30	15 – 27	75	400	.90"L x .66"W x .57"H	2.95	2.59	2.29
32602	ValuePro	11S3240-R	9	Single	24/15	1 – 27	95	2900	1.4" x 1.7"	2.95	2.59	2.39
76021	ValuePro	7S3240-LA	9	Single	24/20	1.5 – 28	95	3200	1.0" x 1.1"	3.95	3.59	3.29
249498	ValuePro	1103120-LF-TA	9	Dual#	12/25	4 – 16	95	2900	1.35" x 1.72"	3.95	3.59	3.29
123538	ValuePro	11D3240	9	Dual#	24/20	4 – 28	80	2900	1.4" x 1.7"	3.49	3.15	2.79
2117430	ValuePro	7P3120LF-LA	10	Pulse	12/10	3 – 15	90	3200	.98" x 1.10"	2.95	2.59	2.29
2172906	Mallory	SCM616N-1	9	Continuous*	6/16/6-22	6-16	90	2900	1.06"x .1.70"	3.95	3.59	3.29
2209123	ValuePro	EFM-260	2	Continuous	12/12	3 – 24	85	3500	.62" x .91"	1.09	.99	.85
673900	ValuePro	SEP-1172	7	—†	12/7	3 – 28	81	3300	.63" x 1.24"	.49	.45	.39

† Requires driver circuit   #Continuous or fast pulse

Fig. 1 **Fig. 2** **Fig. 3** **Fig. 4** **Fig. 5** **Fig. 6** **Fig. 7** **Fig. 8** **Fig. 9** **Fig. 10** **Fig. 11** **Fig. 12**

velleman KOBITONE — **Piezo Transducers (Speakers)** — NEW MARKED IN PINK — ★ *Web Code: JPT*

Part No.	Manufacturer	Product No.	Fig.	Rated Voltage	Max. Current	Res Frequency	Sound (dB)	Dimensions (H" x Dia.")	Pricing 1	10	100
1956784	Velleman	TV4	1	1.5Vp-p	1.5mA	4kHz	75	0.01 x 1.97	$2.95	$2.59	$2.29
1956776	Velleman	TV1	2	1.5Vp-p	1.5mA	4kHz	85	0.24 x 1.18	2.49	2.25	1.95
1874543	Murata	PKM13EPYH4002-B0	4	3Vp-p	1.5mA	4kHz	70	0.27 x 0.50	.99	.89	.75
2207081	ValuePro	AZ-3040E-W-LF	2	3Vp-p	5mA	4kHz	85	0.22 x 1.18	1.75	1.49	1.25
2098523	Kobitone	PB140-ROX	4	5Vp-p	5mA	4kHz	80	0.27 x 0.54	1.25	1.09	.99
2210968	Panasonic	EAF-12RT04CC	4	5Vp-p	2mA	2.04kHz	85	0.33 x 0.47	1.19	1.05	.89
2099702	Kobitone	256-PB315	6	10Vp-p	7mA	4kHz	82	0.30 x 0.67	.59	.55	.49
2098566	Kobitone	AZ-3025E-W-LF	2	10Vp-p	9mA	2.5kHz	86	0.37 x 1.18	1.25	1.09	.99
336276	ValuePro	PT-1250W	3	12Vp-p	2mA	4kHz	75	0.17 x 0.53	1.09	.99	.89
336314	ValuePro	KWT2340F12L-2ER	2	12Vp-p	3mA	4kHz	80	0.18 x 0.94	1.49	1.25	1.09
2077280	Panasonic	24C411	4	15Vp-p	2mA	4kHz	85	0.24 x 0.94	.79	.69	.59
2151216	ValuePro	EAT-17	5	20Vp-p	1mA	3.8kHz	80	0.27 x 0.55	.99	.89	.75
2173896	ValuePro	55PZ30250LF-LA	2	30Vp-p	1.5mA	2.5kHz	80	0.22 x 1.18	1.09	.99	.89
2173888	ValuePro	55PZ30400ULF-LA	2	30Vp-p	1.5mA	4kHz	85	0.22 x 1.18	1.09	.99	.89

Fig. 1 **Fig. 2** **Fig. 3** **Fig. 4** **Fig. 5** **Fig. 6**

JAMECO ValuePro KOBITONE — **Magnetic Transducers (Buzzers)** — ★ *Web Code: JMT*

• Applied voltage: 1/2 duty, square wave

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Volt. Range	Frequency (Hz)	Impedance (Ω)	Sound (dB)	Dimensions (H x Dia.)	Pricing 1	10	100
2159701	ValuePro	CB-12HN	1	2.4/100	1.1 – 3	2700	10	85	.20" x .47"	$.59	$.49	$.39
138740	ValuePro	DBX05-PN	2	5/40	3 – 8	2400	80	85	.35" x .46"	1.49	1.25	1.09
673871	ValuePro	PRT-1205	2	5/40	3 – 8	2400	47	90	.35" x .46"	.99	.89	.75
2129748	Kobitone	256-MB2161	2	12/40	6 – 18	2048	115	85	.55" x .63"	.59	.55	.49
673774	ValuePro	SBT-1612	3	12/40	6 – 18	2048	200	85	.53" x .62"	.59	.49	.39

Fig. 1 **Fig. 2** **Fig. 3**

JAMECO ValuePro — **Mechanical/Electromechanical Buzzers** — ★ *Web Code: MEB*

Part No.	Manufacturer	Cross Ref. No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing 1	10	100
76065	ValuePro	TDB05-PN	1	5/30	4 – 7	2300	85	.35"H x .46"Dia.	$3.95	$3.59	$2.95
24872	ValuePro	63S109LA	2	9/30	6 – 12	400	85	1.3"L x 0.7"W x 0.6"H	1.75	1.49	1.25
140695	ValuePro	63S1120-LA	2	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.95	1.75	1.49

Fig. 1 **Fig. 2**

JAMECO ValuePro — **Piezo Sirens - High Decibel Output** — ★ *Web Code: PSS*

Part No.	Manufacturer	Product No.		Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing 1	10	100
2203063	Intervox	BPS8432L-12-C		12/85	6 – 15	2500 – 2800	105	3.3"L X 2.2"W X 1.3"H	$8.95	$7.95	$6.95
207993	ValuePro	SL15R3120LA		12/250	6 – 16	3500	105	2.3"L X 1.8"W X 1.6"H	4.95	4.49	3.95
2131223	Velleman	SV/PS1		12/200	6 – 15	3500	107	2.2"L X 1.7"W X 1.7"H	5.95	5.39	4.79
2123733	Velleman	SV/PS5		12/1300	6 – 12	4000	125	4.3"Dia. x 3.9"L	9.95	8.95	7.95

2203063 **207993/2131223** **2123733**

Electromech

Square Flat Element Speakers

JAMECO ValuePro

★*Web Code: XAE*

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

Part No.	Cross Ref.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
34025	GSP02-R	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	$2.75	$2.49	$2.25
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49
673766	AZ50S	1.9 x 0.2	0.4	0.8	4	70	500 – 6000	1.9 x 0.1	2.95	2.59	2.29

76030 Side　**76030 Back**

Alnico Round, Square and Rectangular Speakers

JAMECO ValuePro

★*Web Code: EAL*

- For computer case use
- Paper diaphragm • Large magnet
- Wide frequency response
- Pre-tinned solder lugs

Part No.	Product No.	Fig.	Dimensions (Dia." x D")	Input Nom (W)	Input Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
111588	B0102	1	1.7 x 0.6	0.1	0.3	8	83	500 – 5500	0.5 x 0.4	$3.49	$2.95	$2.59
2192552	5150RA-45-BXC	2	1.57 x 0.62	0.1	0.3	8	84	600 – 5600	0.7 x 0.3	1.75	1.49	1.25
88411	A0200	2	2.0 x 0.8	0.2	0.4	8	87	430 – 4500	0.5 x 0.4	2.75	2.49	2.25
2146388	TR057A-R	2	2.25 x 0.77	0.25	0.5	8	84	300 – 14000	0.5 x 0.4	3.49	2.95	2.59
307820	UF1082	5	1.73 x 0.275	0.5	1.0	8	80	200 – 6000	0.8 x 0.1	1.09	.99	.85
1950972	I-826-219#	4	8.2LX2.2Wx2.0H	1.0	4.5	8	85	30 – 20000	1.5 x 2.8	3.49	2.95	2.59
135812	A1527C02	3	1.6Lx2.8Wx1.2H	2.0	5.0	8	82	450 – 20000	0.5 x 0.5	4.95	4.49	3.95
2115442	K7048202	6	1.6Lx2.8Wx0.9H	3.0	3.0	8	82	310 – 12000	0.87 x 0.29	4.95	4.49	3.95
2081220	TP-252†	2	2.6 x 0.875	0.5	1.0	16	89	400 – 4000	0.9 x 0.5	1.95	1.75	1.49
2217828	HKS-16-0.5	2	3.0 x 0.9	0.5	1.0	16	89	500 – 5000	1.2 x 0.4	1.49	1.35	1.19
1954842	609-0033†	3	3.6Lx2.0Wx1.5H	1.0	3.0	16	89	200 – 3000	0.9 x 0.7	1.09	.99	.85
2217836	1.009.841-C†	2	3.0 x 1.2	3.0	4.0	16	89	400 – 10000	1.8 x 0.5	1.75	1.59	1.35

#Sony LCD plasma replacement speaker (actual size: 6"H x 2.15"W x 1.94"D)　　†With lead wires

Fig. 1　**Fig. 2**　**Fig. 3**　**Fig. 4**　**Fig. 5**　**Fig. 6**

Micro Round and Rectangular Speakers

JAMECO ValuePro

★*Web Code: TBX*

Part No.	Product No.	Dimensions (Dia." x D")	Input (W) Nom.	Input (W) Max.	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
2099606	SP801W	1.05 x 0.35	0.1	0.2	8	78	320 – 7500	0.67 x 0.17	$1.49	$1.25	$1.09
2158215	MR-01W	2.25 x 0.43	0.1	0.2	8	84	460 – 7000	0.75 x 0.18	.99	.89	.75
2095242	35CS088-M75NA	1.4Lx1.3Wx0.2H	0.2	0.3	8	80	550 – 6700	0.44 x 0.10	1.09	.99	.85
2099593	SP452W	2.25 x 0.5	0.1	0.2	45	86	150 – 9000	0.68 x 0.17	1.09	.99	.85

2099606　**2095242**　**2099593**

Round Ferrite Speakers

JAMECO ValuePro

★*Web Code: TAT*

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm • Large magnet

Part No.	Manufacturer	Product No.	Dimensions (Dia." x D")	Input (W) Nom.	Input (W) Max.	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
2205561	Panasonic	45P30S	1.8 x 0.7	0.1	0.1	8	93	530 – 3000	1.3 x 0.4	$1.49	$1.25	$1.09
135589	ValuePro	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.95	1.75	1.49
10840	ValuePro	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	2.49	2.25	1.95
320362	ValuePro	TR-057F-R	2.0 x 0.7	0.25	0.5	8	86	900 – 9000	1.3 x 0.25	2.49	2.25	1.95
2208825	ValuePro	EAS-6P60SD	2.2 x 1.3	0.4	0.8	8	85	100 – 5000	0.7 x 0.6	2.95	2.59	2.25
2190653	ValuePro	GF0502BX	2.0 x 1.0	2.0	5.0	8	88	100 – 17000	1.5 x 0.5	3.95	3.59	3.29
2158223	Regal	RF-10W	4.1 x 2.3	10	20	8	90	1000 – 15000	2.8 x 0.8	5.95	5.39	4.79
2205202	ValuePro	HKS-16-5	3.0 x 0.7	0.5	2.0	16	92	200 – 3000	0.8 x 0.5	1.95	1.75	1.49
2205211	Regal	1-009-841-C	3.0 x 0.7	3.0	5.0	16	82	500 – 10000	0.8 x 0.5	2.49	2.25	1.95
2188916	Sharp	80P-G3YB	3.0 x 0.7	0.5	2.0	32	92	200 – 3000	0.8 x 0.5	1.95	1.75	1.49
2099585	ValuePro	RF-608E	2.2 x 0.7	0.1	0.2	48	86	300 – 3000	1.3 x 0.4	.99	.89	.75
2081844	ValuePro	20-220-NSR†	2.0 x 0.7	0.1	0.2	50	86	300 – 3000	1.3 x 0.4	1.09	.99	.85

135589　**2205202**　**2205211**

†With lead wires

Square Ferrite Speakers

JAMECO ValuePro

★*Web Code: EDT*

- Pre-tinned speaker lugs • Anodized metal surfaces • Braided copper voice coil leads • Paper diaphragm • Large magnet

Part No.	Manufacturer	Cross Ref.	Dimensions (Dia." x D")	Input (W) Nom.	Input (W) Max.	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing 1	Pricing 10	Pricing 100
99996	ValuePro	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	$3.49	$2.95	$2.59
135694	ValuePro	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	2.25	1.95	1.75
2179673	ValuePro	27JRG	4.0 x 1.4	3.0	3.0	8	85	800 – 10000	1.8 x 0.5	2.49	2.25	1.95
2179657	ValuePro	1422	2.6 x 0.7	0.4	0.8	8	85	500 – 8000	1.2 x 0.5	2.95	2.59	2.29
2167285	ValuePro	1-529-483-11	3.0 x 2.25	4.0	5.0	8	85.7	180 – 10000	2.5 x 1.0	2.95	2.59	2.29
1954818	ValuePro	TQ-100F-R	4.0 x 1.4	5.0	5.0	8	97	800 – 10000	1.8 x 0.5	3.49	2.95	2.59
31959	ValuePro	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.95	2.59	2.29
2205464	Regal	16-3-3	3.0 x 1.0	1.0	1.0	16	85	500 – 10000	0.86 x 0.40	1.95	1.75	1.49
2179681	ValuePro	27JRG-1624	4.0 x 1.4	2.0	2.0	16	85	800 – 11000	1.8 x 0.5	1.95	1.75	1.49

99996 Side　**99996 Back**　**2167285**　**2179681**

30mm PCB Mountable Speakers

- Ideal for PC board mounting
- Power (nominal/max.): 0.15W/0.2W
- Mylar diaphragm
- Solder leads

135722

Part No.	Size (H x Dia.)	Impedance	Pin Spacing	Freq. Range	SPL (dB)	1	10	100
2095234	0.57" x 1.24	8Ω	0.69"	700-4kHz	82	$1.25	$1.09	$.99
135722	0.50" x 1.17"	8Ω	0.59"	700-5kHz	82	1.49	1.25	.99
2099817	0.47" x 1.16"	100Ω	0.58"	1.1kHz ±20%	95	.55	.45	.35

Thin Flexible Speakers with Amp

- 3V-5V operating voltage, 2 watt amp output
- Good for wearable applications
- Max. current draw: 125mA

NEW MARKED IN PINK

2208315

Part No.	Frequency Range	Mean SPL	Size (in.)	1	10
2208323	650Hz – 18kHz	82dB max.	5.1 x 7.1 x 0.08	$39.95	$37.95
2208315	700Hz – 25kHz	72dB max.	2.7 x 5.4 x 0.08	27.95	26.49

★*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Electromech

3 LEVELS OF SAVINGS　NAME BRANDS　HOUSE BRANDS　SPECIAL BUY

Electromech

(RAF) .187"/.250" Aluminum, Brass & Steel Hex Threaded Standoffs

- **Finish:**
- [1] Aluminum iridite (clear)
- [2] Brass bright tin plate
- [3] Zinc clear chromate
- [4] Chrome   [5] Nickel
- ✱ Order in multiples of 10

Female (Fig. 1)

Male/Female (Fig. 2)
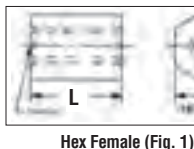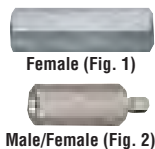
Hex Female (Fig. 1)
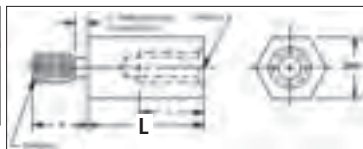
★ **Web Code: TBQ**

Hex Male/Female (Fig. 2)

Hex Male/Female Standoffs

.187" Hex 4-40 (Fig. 2) (A: .250"; B: .187")

Part No.	✱Mfr.	Mfr. Part No.	Length of L	1	10	100
393458	RAF	4501-440AL7 [1]	.250"	$.45	$.39	$.35
393466	RAF	4503-440AL7 [1]	.375"	.45	.39	.35
393474	RAF	4505-440AL7 [1]	.500"	.49	.45	.39
2125202	RAF	4508-440BR7 [2]	.709"	✱	.15	.12
393491	RAF	4509-440AL7 [1]	.750"	.49	.45	.39
393503	RAF	4513-440AL7 [1]	1.00"	.49	.45	.39

.187" Hex 6-32 Thread (Fig. 2) (A: .375"; B: .250")

Part No.	✱Mfr.	Mfr. Part No.	Length of L	1	10	100
393546	RAF	4503-632AL7 [1]	.375"	$.45	$.39	$.35
393554	RAF	4505-632AL7 [1]	.500"	.45	.39	.35
393588	RAF	4513-632AL7 [1]	1.00"	.49	.45	.39

.250" Hex 4-40 Thread (Fig. 2) (A: .250"; B: .187")

Part No.	✱Mfr.	Mfr. Part No.	Length of L	1	10	100
77586	RAF	4530-440AL7 [1]	.250"	$.35	$.29	$.25
77594	RAF	4532-440AL7 [1]	.375"	.39	.35	.29
111756	RAF	4534-440AL7 [1]	.500"	.45	.39	.29
139214	RAF	4536-440AL7 [1]	.625"	.45	.39	.29
139222	RAF	4538-440AL7 [1]	.750"	.49	.45	.35
139231	RAF	4542-440AL7 [1]	1.00"	.49	.45	.35
128566	RAF	4546-440AL7 [1]	1.25"	.59	.49	.39
166546	RAF	4550-440AL7 [1]	1.50"	.69	.59	.49

.250" Hex 6-32 Thread (Fig. 2) (A: .375"; B: .250")

Part No.	✱Mfr.	Product No.	Length of L	1	10	100
133542	RAF	4530-632AL7 [1]	.250"	$.45	$.39	$.25
565167	JVP	8249 [5]	.375"	.59	.49	.39
133568	RAF	4532-632AL7 [1]	.375"	.45	.39	.25
77607	RAF	4534-632AL7 [1]	.500"	.45	.39	.25
77623	RAF	4538-632AL7 [1]	.750"	.49	.45	.35
77650	RAF	4542-632AL7 [1]	1.00"	.49	.45	.35
393959	RAF	4542-632B12 [3]	1.00"	.39	.35	.29

Black Compression Spring (16 Coil)

- Material: medium carbon steel
- OD: 3.2mm (.127")
- ID: 2.4mm (.095")
- Length: 20mm (.787")

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Order in multiples of 10

Part No.	Description	10	100	1000
2131506	Compression spring	$.06	$.04	$.025

(JAMECO ValuePro) Round Magnets

Perfect for Science, Fridge or Projects

- **2111425:** Nickel-plated with matte finish
- **2181327:** Neodymium rare earth (6-pack)
- **109031:** Ceramic with center hole 0.375" Dia.
- **2181319:** Neodymium rare earth (10-pack)

109031

Part No.	Size	1	10	100
2111425	.375"Dia. x .125"Thick	$1.75	$1.49	$1.25
2181327	.480"Dia. x .125"Thick	9.95	8.95	7.95
109031	1.23"Dia. x .190"Thick	.79	.69	.59
2181319	0.31"Dia. x .120"Thick ...	6.95	5.95	4.95

Hex Female Standoffs

.187" Hex 4-40 Thread (Fig. 1)

Part No.	✱Mfr.	Product No.	Length of L	1	10	100
175636	JVP	2052-440S0 [4]	.187"	$.29	$.25	$.19
133613	RAF	2053-440AL7 [1]	.250"	.29	.25	.19
102796	JVP	14-552 [2]	.250"	.35	.29	.25
133640	RAF	2057-440AL7 [1]	.500"	.39	.35	.25
133648	RAF	2059-440AL7 [1]	.625"	.39	.35	.25
133656	RAF	2061-440AL7 [1]	.750"	.45	.39	.29
139185	RAF	2065-440AL7 [1]	1.00"	.49	.45	.35

.250" Hex 4-40 Thread (Fig. 1)

Part No.	✱Mfr.	Mfr. Part No.	Length of L	1	10	100
139193	RAF	2100-440A7 [1]	.250"	$.29	$.25	$.19
77501	RAF	2102-440AL7 [1]	.375"	.35	.29	.25
134763	RAF	2103-440AL7 [1]	.437"	.39	.35	.29
108371	RAF	2104-440AL7 [1]	.500"	.39	.35	.29
77519	RAF	2106-440AL7 [1]	.625"	.39	.35	.29
133605	RAF	2108-440AL7 [1]	.750"	.39	.35	.29
139205	RAF	2112-440A7 [1]	1.00"	.45	.39	.35

.250" Hex 6-32 Thread (Fig. 1)

Part No.	✱Mfr.	Mfr. Part No.	Length of L	1	10	100
77535	RAF	2100-632AL7 [1]	.250"	$.29	$.25	$.19
133591	RAF	2102-632A7 [1]	.375"	.29	.25	.19
77543	RAF	2104-632AL7 [1]	.500"	.35	.29	.25
77552	RAF	2106-632AL7 [1]	.625"	.45	.39	.25
77570	RAF	2108-632AL7 [1]	.750"	.45	.39	.25
77578	RAF	2112-632AL7 [1]	1.00"	.49	.45	.29
143407	RAF	2120-632A7 [1]	1.50"	.59	.55	.49
143441	RAF	2124-632AL7 [1]	1.75"	.79	.69	.59

★ **RAF Electronic Hardware — Web Code RHS**

(JAMECO ValuePro) SAE Hardware

- Zinc-plated steel

★ **Web Code: JNN**

Phillips Round Head Machine Screw

Part No.	Thread	Screw Size	Length (in.)	10	100	1000
2095111	4-40	4	.187	$.059	$.025	$.018

Slotted Pan Head Machine Screws

Part No.	Thread	Screw Size	Length (in.)	10	100	1000
38173	2-56	2	.250	$.099	$.079	$.059
2094320	2-56	2	.375	.099	.045	.038
2094338	2-56	2	.500	.099	.079	.059
40952	4-40	4	.250	.059	.025	.018
40970	4-40	4	.375	.079	.069	.059
106810	4-40	4	.500	.079	.069	.059
106543	6-32	6	.250	.065	.029	.022
42446	6-32	6	.375	.079	.069	.059
42438	6-32	6	.500	.065	.029	.022
2094346	8-32	8	.250	.069	.025	.018
106817	8-32	8	.375	.069	.035	.025
106797	8-32	8	.500	.079	.039	.029

★ **RAF = RAF Electronic Hardware** | **JVP = Jameco ValuePro**

(JAMECO ValuePro) SAE Hardware (Cont.)

- Zinc-plated steel

NEW MARKED IN PINK   ★ **Web Code: JNN**

Phillips Pan Head Machine Screws

Part No.	Thread	Screw Size	Length (in.)	10	100	1000
2094354	2-56	2	.250	$.065	$.029	$.022
2094371	2-56	2	.500	.065	.029	.022
2185871	4-40	4	.187	.049	.019	.015
2094389	4-40	4	.250	.059	.025	.02
2185889	4-40	4	.312	.049	.019	.015
2094397	4-40	4	.375	.059	.025	.02
2094400	4-40	4	.500	.059	.025	.02
2170231	4-40	4	1.00	.079	.069	.059
2185897	6-32	6	.187	.059	.022	.017
2094418	6-32	6	.250	.079	.069	.059
2094426	6-32	6	.375	.059	.022	.017
2094434	6-32	6	.500	.079	.069	.059
2185900	6-32	6	.625	.045	.019	.013
2185918	6-32	6	.750	.059	.022	.017
2094442	8-32	8	.250	.059	.022	.017
2094451	8-32	8	.375	.079	.069	.059

Hex Nuts

Part No.	Screw/Thread	Thick (in.)	Hex (in.)	10	100	1000
38165	2-56	.063	.185	$.059	$.029	$.019
2197450	2-56*	.064	.183	.045	.019	.015
40943	4-40	.090	.243	.059	.029	.019
42420	6-32	.112	.306	.059	.029	.019
51553	8-32	.120	.335	.059	.029	.019
2185782	3/8-32	.093	.495	.15	.12	.11
2203119	3/8-32	.085	.435	.12	.10	.085
2182581	3/8-32†	.092	.525	.39	.35	.29
2086282	1/2-28	.095	.562	.29	.25	.22
2203266	9/16-27	.095	.687	.69	.59	.55
2192501	7/16-32	.095	.562	.59	.45	.39
2203231	1-27	.133	1.125	.75	.65	.59

*Stainless steel   †Brass plate

Flat Washers

Part No.	Screw Size	Outer Dia. (in.)	10	100	1000
2094725	2	.188	$.079	$.059	$.039
211131	4	.237	.049	.029	.015
106826	4	.281	.065	.035	.019
106833	6	.373	.079	.059	.039
106842	8	.375	.079	.065	.055
2159971	3/8	.625	.19	.17	.15
2186187	7/16	.650	.35	.29	.25

Split Lock Washers

Part No.	Screw Size	Outer Dia. (in.)	10	100	1000
106789	2	.172	$.079	$.059	$.039
40977	4	.242	.079	.059	.039
42463	6	.240	.059	.022	.017
51609	8	.279	.069	.025	.019

Internal Tooth Lock Washers

Part No.	Screw Size	Outer Dia. (in.)	10	100	1000
2094733	2	.200	$.079	$.059	$.039
106850	4	.258	.059	.022	.017
106868	6	.277	.079	.059	.039
106877	8	.323	.079	.059	.039
101531	3/8	.500	.25	.19	.15
2089803	1/2	.509	.29	.25	.19
527646	3/8	.620	.29	.25	.19
2159980	3/8	.673	.17	.14	.11
2203274	9/16	.772	.19	.15	.13
2203240	1.0	1.390	.29	.25	.22

SAE and Metric Panel Mounting Hardware

Hardware sold separately ★ Web Code: JNN

2186030

SAE/Metric Thread	Hex or Knurl Nut Part No.	Flat Washer Part No.	Int. Tooth Washer Part No.	Flat Keyway Washer Part No.
10-32 UNS	2183314*		2182531*	
10-48 UNS	578110*		2182531*	2182590*#
1/4-32 UNS	2183331*	2183381	578339*	
1/4-40 UNS	578321*	2183381	578339*	578347*
1/4-40 UNS	578321*	2183381	578339*	2182493*#
5/16-32 NEF	2182784*	2182792*	2201527	
3/8-32 NEF	2182514*	2183293	2185791 (small)*	
3/8-32 NEF	2182514*	2183293	2159980 (large)*	
7/16-32 UNS	See pg 78 for Nut (P/N 2192501) and Flat Washer (P/N 2186187)			
15/32-32 NS	578371*		2182557*	578380*
1/2-28 NEF	740914*		527646*	
M6 x 0.50	2183226*	2183234*		
M7 x 0.75	2182629*	2182637*	2183411 †	
M8 x 0.75	2182573*	2182565*		
M9 x 0.75	2182696*	2182717*		
M10 x 0.75	2159947*	2183251*		
M12 x 0.75	2182725*	2183306	2182741*	2182750*
M13 x 0.75	2185686			

Pricing (10 pcs. min.)	10	100	500	10	100	500	10	100	500	10	100	500
	$.19	$.17	$.15	$.17	$.14	$.11	$.17	$.14	$.11	$.17	$.14	$.11

\# D style (ID) keyway † Lock washer (option)

Prepackaged Panel Mounting Hardware Kits

Hardware sold in kits ★ Web Code: PAM

2182549

Part No.	Mfr. Part No.	Description	Pricing 1	10	100
2183322	10-32HDWR	(2) nuts (1) washer	$.69	$.59	$.49
2182549	10-48HDWR	(2) nuts (2) washers	.89	.79	.69
2183349	1/4-32HDWR	(2) nuts (1) washer	.69	.59	.49
2182477	1/4-40HDWR	(2) nuts (2) washers	.89	.79	.69
2182805	1/4-40HDWR (D)	(2) nuts (2) washers	.89	.79	.69
281852	5/16-32HDWR	(2) nuts (1) washer	.69	.59	.49
2186030	3/8-32HDWR	(2) nuts (1) washer (small)	.69	.59	.49
2182611	3/8-32HDWR	(2) nuts (1) washer (large)	.69	.59	.49
2186208	7/16-32HDWR	(2) nuts (2) washers	1.49	1.25	1.09
2182506	15/32-32HDWR	(2) nuts (2) washers	.89	.79	.69
2186021	1/2-28HDWR	(2) nuts (1) washer	.79	.69	.59
2183218	M6HDWR	(2) nuts (1) washer	.69	.59	.49
2182688	M7HDWR	(2) nuts (1) washer	.69	.59	.49
2182602	M8HDWR	(2) nuts (1) washer	.79	.69	.59
2182709	M9HDWR	(2) nuts (1) washer	.69	.59	.49
2183242	M10HDWR	(2) nuts (1) washer	.69	.59	.49
2182733	M12HDWR	(2) nuts (2) washers	.89	.79	.69

The parts indicated with "*" on the left are included in the kits on the right.
M14 x P1.0 (P/N 2182961) hex nuts available online, visit www.Jameco.com

Right Angle (L) Mounting Brackets

KEYSTONE

Fig. 1 Fig. 2

Jameco Part No.	Keystone Part No.	Fig.	A	B	C	D	E	F	G Dia.	H Dia.	Material	Plating	Pricing 1	10	100
Non-Threaded Clear Hole Universal Mounting Brackets															
2203135	613	2	.390	.453	.375	.234	.299	.032	.128	.147	Brass	Nickel	$.39	$.35	$.29
2203143	615	1	.420	.343	.281	.281	.203	.032	.125	.144	Brass	Tin	.25	.22	.19
2203151	4335	1	.562	.562	.500	.412	.411	.062	.120	.120	Steel	Nickel	.45	.39	.29
2203160	618	2	.628	.628	.375	.378	.378	.050	.169	.169	Brass	Nickel	.59	.49	.39
Threaded Hole Universal Mounting Brackets															
2203178	612	1	.343	.375	.250	.203	.250	.062	4-40	.130	Steel	Zinc	$.29	$.25	$.19
1581530	621	1	.343	.375	.250	.203	.250	.062	4-40	4-40	Steel	Zinc	.35	.29	.25
2203186	616	1	.453	.312	.250	.265	.187	.047	4-40	.136	Brass	Tin	.49	.45	.35
2203194	634	1	.375	.375	.281	.218	.218	.032	6-32	.140	Brass	Nickel	.49	.45	.39
2203207	614	1	.420	.343	.312	.250	.197	.032	6-32	.144	Brass	Tin	.29	.25	.19
2203215	4334	1	.562	.562	.500	.412	.412	.062	6-32	6-32	Steel	Nickel	.39	.35	.29
2203223	617	2	.578	.500	.500	.328	.299	.032	6-32	.165	Steel	Tin	.49	.45	.35

351-Piece SAE Panel Mounting Hardware Kit

Includes: 350 pcs. 8 thread types (see below) and a cabinet (20 drawers with 20 dividers & custom drawer labels)

*20 each; †10 each

SAE Thread	Hex Nut*	Flat Washer*	Int. Tooth Washer*	Keyway Washer†
10-32 UNS	2183314			
10-48 UNS	578110		2182531	2182590
1/4-32 UNS	2183331	2183381	578339	
1/4-40 UNS	578321			578347
5/16-32 NEF	2182784	2182792		
3/8-32 NEF	2182514	2183293	2185791	
15/32-32 NS	578371		2182557	578380
1/2-28 NEF	740914		527646	

Part No.	Description	1	10
2186056	351 pcs. SAE Hardware kit	$59.95	$53.95
2186064	Refill for 2186056 (350 pcs.)	44.95	39.95

See page 30 for Electronic Hardware Kit

RAF Thumbscrew

- 6-32 thread
- Aluminum ★ Web Code: VBZ
- Thread length: 3/8"
- Length: 9/16"

Part No.	Mfr. Part No.	1	10	100
394063	7125-A	$.75	$.65	$.55

PCB & Fan Mounting Hardware

1581572   28337   2133755/2133763   156831   2100064

- Snap "on"
- Nylon   2188481   2188490

★ Web Code: PSF

* Rubber # Chrome † Black anodize

Order in mutiples of 10

Part No.	Cross Ref.	Size (in.)	Holes	10	100
1581572	904	Terminal stud #6	—	$.19	$.15
28337	CS1016	1.2L x 0.6W	.2"	.15	.12
129252	PCST2	0.9L x 0.4Dia.	.2"/.3"	.15	.12
2133755	PCST3C	0.7L x 0.5W	.1"/.2"	.07	.05
2133763	PCST4C	0.8L x 0.5W	.1"/.3"	.07	.05
156831	CS-10	0.68L x 0.32Dia.	.14"	.15	.12
2100064	SR1036*	1.5L x 0.38Lip	.167"	.05	.03
2188481	8825-S#	0.4L x 0.2W	—	.07	.05
2188490	8825†	0.4L x 0.2W	—	.09	.07

Adhesive Rubber Feet

JAMECO ValuePro ★ Web Code: FAV

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly, resist marring and staining on surfaces and give excellent skid and abrasion resistance.

Fig. 1   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6   Fig. 7

Part No.	Cross Ref. No.	Type	Fig.	Pack	Size (W" x H")	1	10	50
2119718	BS-34-100BL	Black cylindrical	1	100	.38 x .13	$3.95	$3.59	$3.29
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	6.95	6.25	5.59
2202141	BS35-BLK	Black cylindrical	1	100	.37 x .19	6.95	5.95	5.49
651911	SJ5312CLR56	Clear cylindrical	2	56	.50 x .14	5.95	5.39	4.79
126981	SJ5023BLK4	Black square tapered	3	4	.81 x .30	1.09	.99	.85
142666	SJ5023BLKC	Black square tapered	3	100	.81 x .30	15.95	14.49	12.95
142771	SJ5008BLKC	Black square tapered	4	100	.50 x .12	7.95	6.95	6.25
142682	SJ5018BLKC	Black square tapered	5	100	.50 x .23	10.95	9.95	8.95
2118871	BS-7-100BL	Black hemisphere	6	100	.34 x .09	5.95	5.39	4.79
2185539	BS-18-CLEAR100	Clear recessed	7	100	.50 x .14	6.95	6.25	5.59
2185571	BS-44-BLACK100	Black cylindrical	1	100	.75 x .16	16.95	14.95	13.49
2185598	BS-44-CLEAR100	Clear cylindrical	1	100	.75 x .16	16.95	14.95	13.49
2081385	GB201	100 assorted sizes & types of bumpers & rubber feet				8.95	7.95	6.95

Electromech

For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

1.3VDC – 24VDC Motors

★ Web Code: FBN

| | | | | Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 | Fig. 6 | Fig. 7 | Fig. 8 | Fig. 9 | Fig. 10 | Fig. 11 |

Fig. 12 | Fig. 13 | Fig. 14 | Fig. 15 | Fig. 16 | Fig. 17 | Fig. 18 | Fig. 19 | Fig. 20

NEW MARKED IN PINK
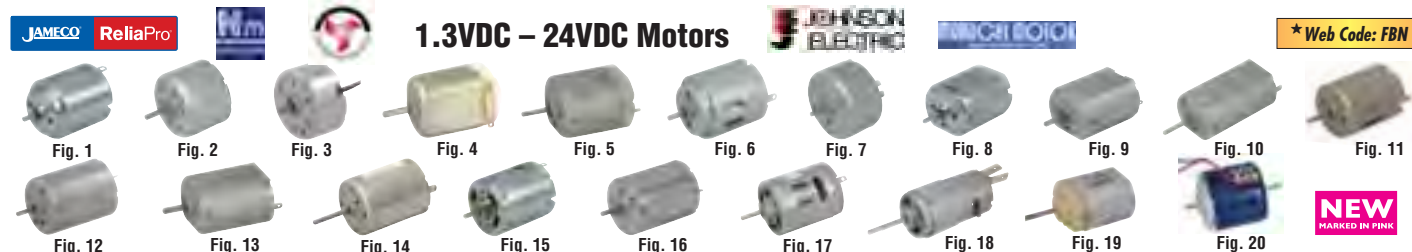
Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency Speed (RPM)	@ Maximum Efficiency Current (Amps)	@ Maximum Efficiency Torque (g-cm)	Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size Dia. x Depth (in.)	Pricing 1	Pricing 10	Pricing 100
2209043	Jinlong	Z4SL2A0000009*	20	1.3	1-1.6	21000	0.05	0.3	50	1" wires	0.07	0.10	0.16 x 0.40	$2.25	$1.95	$1.75
231917	ReliaPro	FE-260-2670	1	1.5	1.5-3	3700	0.66	10.5	42.9	0.12"/solder	0.078	0.314	0.937 x 1.063	2.95	2.75	2.49
2192755	Mabuchi Motor	FA130RA#	19	1.5	1.5-3	6990	0.66	6.0	50	0.07"/solder	0.078	0.30	0.787 x 1.00	3.49	2.95	2.75
2209094	Mabuchi Motor	MABUCHI-55	20	1.5	1.5-12	1350	0.32	—	50	0.05"/solder	0.09	0.35/0.25	1.35 x 1.38	3.95	3.49	2.95
238465	ReliaPro	RF-310TA-11400 (CW)	2	2.5	1-6	2190	0.06	3.3	75	0.05"/solder	0.078	0.70	0.962 x 0.712	2.95	2.75	2.49
2158442	Nichibo	RF-500TB-18280-R	2	3	1-3	2104	0.17	13.4	60	0.07"/solder	0.078	0.34	1.25 x 0.75	2.95	2.75	2.49
238458	ReliaPro	RF-300CA-11400 (CW)	3	3	1-6	2400	0.065	4.3	56.4	3" wires	0.078	0.19	0.96 x 0.491	3.49	2.95	2.75
154915	Jency Motor	ST130-12240-38	4	3	1.5-3	3588	0.17	7.4	55	0.09"/solder	0.08	0.37	0.79 x 1.13	2.49	2.25	1.95
1939589	ReliaPro	FF-130RH-15210	5	3	1-4	4280	0.17	5.8	50	0.08"/solder	0.078	0.24/0.21	0.79 x 0.98	2.95	2.75	2.49
1951449	ReliaPro	QJT-260-18130	1	3	1.5-4.5	4780	0.46	10	40	0.12"/solder	0.078	0.314	0.944 x 1.071	2.95	2.75	2.49
231925	ReliaPro	FE-260-2295	1	3	1.5-4.5	6850	0.63	14	53.9	0.12"/solder	0.078	0.314	0.937 x 1.063	2.75	2.49	2.25
154923	Jency Motor	ST-130-22770	4	3	1.5-3	13200	0.95	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	2.49	2.25	1.95
211246	ReliaPro	RC-260RA-2670	6	4.5	3-4.5	15290	1.43	21.8	53	0.11"/solder	0.08	0.28	0.93 x 1.06	2.75	2.49	2.25
2173044	Nichibo	RF-500TB-12560	7	6	6-12	2100	0.08	11	58	0.08"/solder	0.078	0.342	1.259 x 0.767	3.95	3.49	2.95
2188861	Nichibo	RF-500TB-14415-R	7	6	0.7-6.5	2901	0.13	15.9	60	0.07"/solder	0.07	0.40	1.25 x 0.72	3.95	3.59	3.25
231829	ReliaPro	PC-280-16210	8	6	3-12	4260	0.28	18	47.6	0.08"/solder	0.078	0.433	0.944 x 1.20	3.95	3.49	2.95
2209182	Mabuchi Motor	RF-370CA-22170	14	6	1-6	4600	0.62	40	60	0.08"/solder	0.079	0.34	0.755 x 1.21	3.49	2.95	2.75
2158434	Nichibo	RF370CH-22170-R	14	6	1-6	4787	0.45	34.28	63	0.15"/solder	0.078	0.19	0.96 x 1.20	2.25	1.95	1.75
231781	ReliaPro	PC-130F-12240	9	6	3-9	6800	0.25	7.0	33.4	0.08"/solder	0.078	0.377	0.803 x 0.984	3.95	3.49	2.95
232144	ReliaPro	FF-050S-11170	10	7	1.5-9	8500	0.17	7.0	51.3	0.08"/solder	0.059	0.433	0.61 x 1.059	3.49	2.95	2.75
177708	ReliaPro	RC280RA-2485	11	7.2	3-14	14260	1.18	33.3	57	0.11"/solder	0.08	0.43	0.95 x 1.20	2.95	2.75	2.49
2095533	Mabuchi Motor	RK-270SH-16175	12	9	4.5-18	6320	0.37	32.5	63.7	0.08"/solder	0.08	0.344	0.96 x 1.21	2.95	2.75	2.49
174693	ReliaPro	21226-384221	14	12	9-14	3000	0.015	85.06	—	0.11"/solder	0.08	0.71	0.97 x 1.19	3.49	2.95	2.75
2209203	Nichibo	MC5BN-12200	15	12	2-20	3203	0.201	36.05	50.9	5" wires	0.09	1.00	1.09 x 1.29	4.95	4.49	3.95
2188852	Nichibo	RF-370CH-11435	11	12	1.5-14.5	3743	0.12	20.8	59	0.8"/solder	0.08	0.53	0.96 x 1.21	3.49	2.95	2.65
2211101	Nichibo	RF370CH-15370-R	16	12	1.5-14	4378	0.19	31	62	0.15"/solder	0.08	0.42	0.995 x 1.25	2.95	2.75	2.49
2155153	Nichibo	PC260SB-10400-NR/38	5	12	1.5-15	4719	0.053	97.6	55	0.08"/solder	0.08	0.23	0.72 x 1.06	2.49	2.25	1.95
231732	ReliaPro	PC-130SF-09480	9	12	6-24	4800	0.11	12.3	49.6	0.08"/solder	0.078	0.377	0.803 x 0.984	3.95	3.49	2.95
238473	Mabuchi Motor	RF-370CA-15370	16	12	3-12	4840	0.17	187	75	0.08"/solder	0.078	0.346	0.96 x 1.213	3.49	2.95	2.75
206949	Nichibo	QJT360S14280	17	12	9-30	4930	0.35	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	3.49	2.95	2.75
2144673	Mabuchi	RS555PH-23300	15	12	12-30	5050	0.36	380.3	—	0.19"/quick conn.	0.125	0.50	1.44 x 2.625	3.95	3.49	2.95
2155250	Nichibo	MD3BN-14280-R51	17	12	6-18	5260	0.268	36.2	63	0.11"/solder	0.09	0.45	1.09 x 1.30	3.49	2.95	2.75
231896	ReliaPro	FE-260-08450	1	12	6-12	5560	0.11	10.3	46.6	0.12"/solder	0.078	0.314	0.937 x 1.063	3.49	2.95	2.75
2167681	Nichibo	DC-130SB-10410	19	12	6-12	5624	0.2	18.17	47	Plug-in	0.09	0.519	0.78 x 1.00	1.95	1.75	1.49
2217810	Nichibo	JD5B-2655W-R†	15	12	1-18	6468	0.93	122.8	74	0.11"/solder	0.09	0.33/0.22	1.18 x 1.83	4.95	4.49	3.95
2188801	Nichibo	MP5-18105AS-R	17	12	1.5-15	6545	0.63	60.5	54	0.11"/solder	0.09	0.53	1.09 x 1.27	2.95	2.59	2.25
2188844	Nichibo	FK-050SHB-07295-R	9	12	3-19	6784	0.12	9.21	47	0.09"/solder	0.05	0.20	0.61 x 1.05	2.95	2.59	2.25
2167592	Nichibo	LS5BFN-2465	15	12	6-18	7205	0.75	83.3	72	0.11"/solder	0.09	0.54	1.09 x 1.48	3.49	2.95	2.75
1810099	Mabuchi Motor	FK-260SA (14280)	5	12	12-24	8600	0.063	14.8	55	0.08"/solder	0.08	0.43	0.96 x 1.06	2.75	2.49	2.25
2217781	Nichibo	PC260SB-14280-NR	5	12	12-18	7524	0.25	23.2	61	0.08"/solder	0.078	0.43	0.96 x 1.06	2.75	2.49	2.25
2209140	Mabuchi Motor	FK-260SA-14280	5	12	12-24	8600	0.063	14.8	55	3.5" wires	0.08	0.43	0.96 x 1.06	3.49	2.95	2.75
2081895	Mabuchi Motor	FC-280ST-18180**	9	12	8-15	9700	0.16	54.3	59.08	Wire/push-in	0.08	0.45	0.95 x 1.32	1.95	1.75	1.49
232022	ReliaPro	MD5-1885	15	12	6-18	9820	0.74	53.5	60.7	0.11"/solder	0.091	0.622	1.082 x 1.279	3.49	2.95	2.75
232040	ReliaPro	MD5-2070	15	12	6-12	12586	1.3	52	62.7	0.12"/solder	0.091	0.48	1.082 x 1.279	3.49	2.95	2.75
2210845	Nichibo	775-7013F-R	14	12	1-12	12610	13.52	93.7	76	0.19"/solder	0.19	0.57	1.77 x 2.59	7.95	6.95	5.95
232047	ReliaPro	MD5-2445	15	12	6-12	19850	2.05	79.7	66	0.12"/solder	0.091	0.622	1.082 x 1.279	4.95	4.49	3.95
2167699	Nichibo	775-8511FDAS	15	14.4	6-14.4	17606	18.05	103	73	0.19"/solder	0.19	0.74	1.77 x 2.59	7.95	6.95	5.95
2217801	Nichibo	MS5BN-1980-R††	15	18	1-18	15432	1.05	78.9	68	0.11"/solder	0.09	0.511	1.06 x 1.27	3.95	3.49	2.95
2167672	Nichibo	MS5N-07500B-R	15	24	12-24	2475	0.061	25.39	47	0.11"/solder	0.09	0.748	1.1 x 1.279	2.75	2.49	2.29
2120461	Mabuchi Motor	RS385PH-10280	15	24	12-30	3538	0.126	4.54	55.6	0.11"/solder	0.09	0.315	1.15 x 1.50	2.95	2.75	2.49
2188810	Nichibo	LS5FN-16120W-R	17	24	1-28	8244	0.41	81.7	70	0.11"/solder	0.09	0.61	1.14 x 1.47	2.95	2.59	2.29
2192421	Nichibo	HP5BFN-2670-R††	15	24	1.5-28	9346	1.05	193	74	0.15"/solder	0.12	0.17	0.7 x 1.90	4.95	4.49	3.95
2188828	Nichibo	PC-130SBF-10400TB-R/48	13	24	1-34	10823	0.24	25.4	48.8	0.11"/solder	0.07	0.65	0.8 x 0.98	3.95	3.59	3.25
2188836	Nichibo	PC-130SBF-10400TB-R/55	13	24	1-34	10823	0.24	25.4	48.8	0.08"/solder	0.07	1.02	0.8 x 0.98	2.95	2.59	2.29

With copper gear   *Micro DC   **Reverse   † Built-in varistor and capacitor, dual shift   †† Built-in varistor

Hi-Torque

★ Web Code: FBN

Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	Speed (RPM)	Current (Amps)	Torque (g-cm)	Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size Dia. x Depth (in.)	1	10	100
237391	ReliaPro	29SYT003	18	13.5	13.5	18000	13	509	—	Quick connect	0.125	1.003	1.141 x 2.283	$8.95	$7.95	$6.95

Electromech

6, 12 & 24VDC Reversible Gear Head Motors

★ Web Code: KBB

• Solder-type terminal • High torque construction • Dielectric strength: 300VDC • Insulation resistance: 10MΩ • Oil bearing design for long service life

32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Speed (RPM)	Current (mA)	Torque (g-cm)					1	5	25
2146505	B32-6V3.1RPM	6	3	90	7350	340:1	1.9 x 0.41	1.3 x 0.9	.28 x .87	$17.95	$15.95	$13.95
253323	B32-6V7RPM	6	6	40	1500	176:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	14.95	13.49	11.95
253307	B32-6V9RPM	6	8	38	1200	150:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	17.95	15.95	13.95
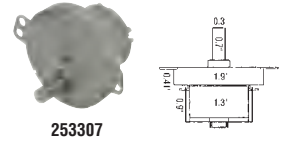
38GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	1	5	25
253534	38-010	12	24	97	7500	250:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	$16.95	$14.95	$13.49
253518	38-008	12	40	87.5	4800	150:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	14.95	13.49	11.95
253500	38-007	12	60	82	3200	100:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	17.95	15.95	13.95
253489	38-005	12	110	76	1300	56:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	14.95	13.49	11.95
253471	38-004	12	120	74	1100	50:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	14.95	13.45	11.95
253446	38-001	12	600	61.8	350	10:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	17.95	15.95	14.49
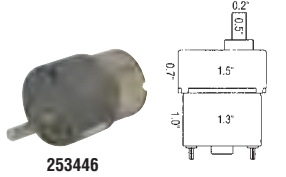
Nichibo Gear Head Motors

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	1	5	25
2192878	RK-520-17310-R	12	423	104	1749	50:1	1.46 x 1.0	1.3 x 0.9	.21 x .78	$15.95	$13.95	$12.49
2197476	MD3B-14280-R	12	327	5214	42.89	180:1	1.45 x 1.1	1.1 x 1.3	.24 x .30	13.95	12.49	11.95

HN27GD Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Speed (RPM)	Current (mA)	Torque (g-cm)					1	5	25
167039	GH12-0953Y	12	4.5 – 24	9	90	1200	188:1	1.1 x 1.0	1.0 x 0.9	.16 x .60	$18.95	$16.95	$15.25
167047	GH12-1828Y	12	4.5 – 24	31	195	1300	90:1	1.1 x 0.8	1.1 x 1.3	.16 x .60	23.95	21.95	19.95
249480	GH12-1213Y7-0	12	4.5 – 24	90	51	460	70:1	1.1 x 0.6	1.0 x 0.9	.16 x .60	19.95	18.95	17.95
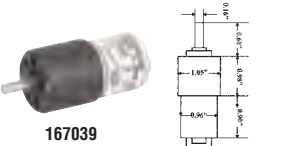
GH30GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	1	5	25
170642	GH12-1828Y-10	12	6.0 – 24	8	105	3500	332:1	1.2 x 0.9	1.2 x 1.2	.16 x .70	$19.95	$17.95	$16.95
153438	GH12-1045Y	12	3.0 – 12	13	90	800	200:1	1.1 x 0.6	0.9 x 1.0	.16 x .70	15.95	14.95	13.95
159418	GH12-1921Y	12	4.5 – 12	25	200	2000	132:1	1.2 x 0.9	1.2 x 1.2	.16 x .70	21.95	19.95	17.95
162191	GH12-1324Y225	12	4.5 – 12	190	145	300	30:1	1.1 x 0.6	1.0 x 0.9	.16 x .70	17.95	15.95	13.95

GH35GM Series Plastic Gears

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	1	5	25
155012	GH12-1926	12	4.5 – 12	2	250	6000	3000:1	1.4 x 0.9	1.3 x 1.0	.23 x .90	$24.95	$22.49	$19.95
155821	GH12-1830Y-P	12	4.5 – 12	4.5	220	4500	1000:1	1.4 x 0.9	1.3 x 1.0	.23 x .90	23.95	21.95	18.95
155839	GH12-1641T-L	12	3.0 – 12	20	250	3000	270:1	1.4 x 0.8	1.3 x 1.0	.23 x .90	25.95	22.95	19.95
152911	GH12-1926Y	12	4.5 – 12	40	172	2370	100:1	1.4 x 0.6	1.3 x 1.2	.24 x .90	24.95	22.49	19.95
151441	GH12-1632TI	12	4.5 – 12	57	275	2200	100:1	1.4 x 0.6	1.3 x 1.0	.23 x .90	23.95	22.95	21.95
155863	GH12-1926Y-F	12	4.5 – 12	70	300	1000	60:1	1.4 x 0.7	1.3 x 1.0	.24 x .70	22.95	21.95	19.95
155855	GH12-1641T-F	12	3.0 – 12	71	250	1000	60:1	1.4 x 0.6	1.3 x 1.0	.23 x .90	21.95	19.95	17.95
161374	GH12-1345T	12	4.5 – 12	116	185	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.95	19.95
161382	GH12-1634T	12	4.5 – 12	145	293	850	30:1	1.4 x 0.6	1.3 x 1.0	.23 x .90	24.95	22.49	19.95
164786	GH12-1640Y	12	4.5 – 24	220	120	180	10:1	1.4 x 0.6	1.3 x 1.1	.23 x .90	24.95	22.49	19.95
176050	GH12-1640Y00	24	12 – 24	1.8	340	6000	3000:1	1.4 x 1.0	1.3 x 1.0	.23 x .90	23.95	21.95	19.95
176032	GH24-1640Y06	24	12 – 24	50	340	2000	90:1	1.4 x 0.6	1.3 x 0.9	.23 x .90	25.95	22.95	19.95
176023	GH24-1640Y19	24	12 – 24	148	340	1000	30:1	1.4 x 0.6	1.3 x 0.9	.23 x .90	25.95	22.95	19.95
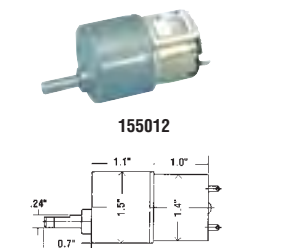
GH35GM Series Metal Gears

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	1	5	25
2150491	GA25Y37050-75	6	2.0 – 7.5	133	350	8800	75:1	.98 x 0.9	.97 x 1.2	.16 x .38	$12.95	$11.95	$10.95
2150504	GA25Y370-34	6	2.0 – 7.5	293	350	4000	34:1	.98 x .83	.96 x 1.2	.16 x .38	12.95	11.95	10.95
155013	HN-GH12-1632T-R-M	12	4.5 – 12	2	250	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	23.95	21.95	19.95
155822	GH12-1830Y-P-R-M	12	4.5 – 12	4.5	250	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	23.95	21.95	18.95
151442	HN-GH12-1632T-R-M	12	4.5 – 12	57	275	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	22.95	20.49	17.95

NEW MARKED IN PINK

Specialty Gear Motors

Part No.	Mfr.	Product No.	Rated Voltage	Operating Range	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Size (L" x W" x H")	Shaft Size Dia. x Length (in.)	Special Feature	1	5	25
2150432	Dagu	DG01D	4.5 VDC	4.5 VDC	90	190	800	—	2.5 x 1.5 x 0.9	0.21 x 0.31	Motor pair with 90° shaft	$6.95	$6.25	$5.75
400995	Solarbotics	GM8	6 VDC	3-6 VDC	78	57	5500	143	2.17 x 1.89 x 0.91	0.28 x 0.20	Offset/inline plastic gear motor	6.95	6.25	5.75
2128219	Pololu	1101	6 VDC	6 VDC	320	80	2200	100	0.94 x 0.39 x 0.47	0.12 x 0.35	Mini Gear motor	15.95	14.95	13.95
2190813	DFRobot	FIT0302	6 VDC	3-6 VDC	500	40	1200	30	1.0 x 0.47 x 0.39	0.12 x 0.39	D-shaft, output shaft	12.95	11.95	10.95
2205763	Pololu	2271	6 VDC	6 VDC	1010	450	190	9.7	2.38 x 0.98 x 0.98	0.16 x 0.32	48 CPR encoder	36.95	34.95	33.49
2136438	Pololu	1447	12 VDC	6-12 VDC	80	250	18000	131	2.71 x 1.45 x 1.45	0.24 x 0.59	64 CPR encoder	39.95	37.95	35.95
2204111	Robot Power	MAGNUM775	14.4 VDC	12-18 VDC	720	4000	180000	20	2.62 x 1.67 x 1.67	0.5 x 3.0	20:1 2-stage planetary gear motor	89.95	84.95	79.95
213488	JRP	SOTYZ-R	120 VAC	100-120 VAC	6	40	6700	—	2.0 x 2.0 x 1.0	0.28 x 0.52	Clockwise rotation	12.95	11.49	9.95

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Electromech

Photo captions: 253307, 32GM Series, 253446, 38GM Series, 167039, HN27GD Series, 159418, GH30GM Series, 155012, 2150491/2150504, 155013, GH35GM Series

Electromech (side tab)

JAMECO ReliaPro — 1.3VDC & 3VDC Vibrating Motors

★ Web Code: NBC

• Typical applications: cellular phones, pagers and toys
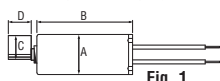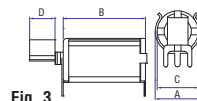
Fig. 1   Fig. 1   Fig. 2   Fig. 3   Fig. 3   Fig. 4
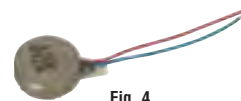
Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) (Dia." x Depth")	Shaft Size (C x D) (Dia." x Length")	Pricing 1	10	100
175062	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	$3.95	$3.49	$2.95
256306	6ZK003	2	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	2.95	2.65	2.25
256322	6ZK211	3	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC terminal	0.27 x 0.48	0.11 x 0.11	2.75	2.49	2.25
2209035	Z4SL2A0280131	2	1.3 @ 85	1.10 - 1.60	10000 @ 1.3	1.0	0.18 x 0.40	0.20 x 0.15	2.75	2.49	2.25
256365	7ZK692	2	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	3.95	3.49	2.95
256382	7ZK681	2	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	3.95	3.49	2.95
256314	6ZK053	2	3.0 @ 75	1.60 - 3.00	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.25	2.95	2.65
256331	6ZK261	3	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC terminal	0.27 x 0.48	0.11 x 0.11	3.25	2.95	2.65
2189476	C1034B98FR	4	3.0 @ 80	2.50 - 4.00	9000 @ 3.0	1.0	0.39 x 0.13	No shaft	3.49	3.25	2.95

JAMECO ReliaPro — 4VDC to 24VDC Bipolar & Unipolar Stepper Motors

★ Web Code: UBN

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 4 to 24VDC models below.

• Ball bearings
• Dielectric strength: 500V, 50Hz/minute
• Insulation resistance: 100MΩ @ 500VDC
• 18" lead wires
• Ambient temp.: -10°C to +55°C
• Use P/N 161998 (below) for shaft coupler
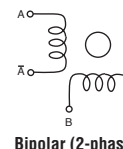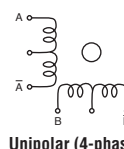
Bipolar (2-phase)   Unipolar (4-phase)

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9 Fig. 10 Fig. 11

Part No.	Product No.	Fig.	Drive System	Rated Voltage (VDC)	Step Angle (°±5%)	Phase Resis. (Ω)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing 1	5	25
1581231	42BYGHM206-07E	3	Unipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	0.46	$21.95	$19.95	$17.95
237607	57BYGH001	1	Unipolar	5	1.8	5	1000	—	135	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	29.95	26.95	23.95
237825	25BY4801	4	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	9.95	8.95	7.95
237631	57BYGH803	1	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	49.95	44.95	39.95
2138812	35BY48I030-01	5	Unipolar	7	7.5	20	350	11	125	450	1.59	0.12	0.078	0.47	1.37	0.85	0.22	8.95	7.95	6.95
224022	42BYG016	6	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	21.95	19.95	17.95
155433	42BYG228	6	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.95	18.95	16.95
237543	57BYG007	2	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	27.95	25.95
238538	42BYGH404	7	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	21.95	19.95	17.95
162027	57BYG084	2	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.95	32.25	28.95
238115	35BY48B08	8	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	8.95	7.95	6.95
2120479	RDS3000	9	Bipolar	4	1.8	4	1000	10	—	3600	1.21	0.09	0.195	0.312	1.67	1.62	0.40	19.95	17.95	15.95
237490	39BYG001	6	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	21.95	19.95	17.95
237578	57BYG061	2	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	34.95	31.95	28.95
237519	42BYG017	6	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	19.95	17.95	15.95
2158531	STP-42D201-37†	10	Bipolar	12	1.8	1.55	1700	5	163	3200	1.22	0.15	0.19	0.68	1.65	1.49	0.60	9.95	8.95	7.95
155460	42BYG023*	6	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	21.95	19.95	17.95
237472	39BYG401A	6	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.95	17.95	16.95
2158557	M25SP-5N †	10	Bipolar	24	7.5	50	550	—	177	183	1.25	0.27	0.08	0.22	1.25	0.53	0.06	4.95	4.49	3.95
2209254	PM55L-048-ZXX3	11	Bipolar	24	7.5	5.5	800	—	1400	1600	2.50	0.13	0.25	0.62	2.16	1.00	0.60	7.95	6.95	6.25

*155460: Dual shaft   † Mfr.: 2158531: Shinano Kenshi; 2158557: Mitsumi

JAMECO ReliaPro — Spider Couplers

162288 (Coupler)

162000 (Rubber Spider)

• Used with motors
• 1 set screw per hub
• Hub OD: 0.625" Dia.
• Hub length: 0.56"
• Parts sold individually

★ Web Code: EBE

Part No.	Description	1	10	100
162288	.125" (3.18 mm) ID hub	$1.95	$1.75	$1.25
161998	.197" (5.00 mm) ID hub	1.95	1.75	1.25
162270	.250" (6.35 mm) ID hub	1.95	1.75	1.25
162000	Rubber spider	1.75	1.49	1.19

★ Arduino Shields — Enter Web Code AOS

CLIMAX — Spider Shaft Coupler

• 2 set screws (10-32 x 1/8)
• Size: 0.75"L x 0.5"OD

★ Web Code: EBE

Part No.	Description	1	5	25
138288	.250" ID sleeve coupler	$6.95	$6.25	$5.59

★ Thrust Bearings — Enter Web Code THW

JAMECO ValuePro — 10-Pc Gear Assortment

• Polyethylene resin
• Gears are 0.147" bore size
• Bushings are 0.07" bore diameter
• T10, T20, T30, T40, T50 and bushing
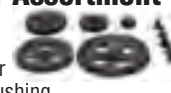
Part No.	Description	1	10	25
1810072	Gear set – 10 pieces	$7.95	$6.95	$6.25

★ Gears — Enter Web Code PEF

HARDWARE GRAB BAGS

| P/N 171571 | 500 pcs. | $7.95 |
| P/N 171635 | 1400 pcs. | $17.95 |

2-Amp Dual-Channel Motor Controller

This motor controller uses the high-power L298N motor driver chip, which allows for direct drive of 2 bidirectional DC motors. It can drive up to 2A of current per motor and uses a broad brush design to reduce wire resistance.

- Logic input voltage: 6V-12V (at 36mA)
- Drive input voltage: 4.8V-46V (at 2A)
- Max. power dissipation: 25W
- Drive type: dual high-power H-bridge driver
- Operating temperature: -25°C to +130°C

Part No.	Mfr. Part No.	Size (L" x W")	Wt. (oz.)	1	5
2159411	DRI0002	1.9 x 2.1	1.03	$19.95	$18.95

KAE Industrial Motion Controllers for Brush, Brushless & Stepper Motors

323942: • For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

323942

323951: • For 3-phase brushless motors with Hall effect sensors or conventional DC brush-type motors
- Amplifier capable of driving 6A continuously @ up to 48VDC
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Support for linear & circular interpolation using the PIC-SERVO CMC chipset

184997

184997: • Trapezoidal position profiling, velocity mode, up to 50,000 steps/sec.
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Integrated indexer and driver for 2 or 4 phase stepper motors

Part No.	Description	Size (L" x W" x H")	1	5
323942	PIC-SERVO motor control board	3.1 x 2.1 x 0.9	$159.95	$151.95
323951	PIC-SERVO 3-phase motor control board	3.1 x 3.1 x 0.9	239.95	227.95
184997	PIC-STEP motor control board	3.1 x 2.1 x 0.9	159.95	151.95

Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

157104

168284 Includes:
1 each of the following: 10 teeth with ³⁄₃₂" bore size; 14 and 16 teeth with ⅛" bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with ¼" bore size

168284

Part No.	Description	1	5	25
157104	1/4" bore aluminum mounting hub with set screws	$8.95	$7.95	$6.95
168284	Gear set - 12 pieces (see description above)	32.95	31.49	29.95

16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.

157075 **157075** **168276**

168276: 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with ⅛" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with ¼" bore size

Part No.	Description	1	5	25
157075	Drive chain (12" long)	$12.95	$11.49	$9.95
168276	Sprocket set - 14 pieces (see description above)	29.95	26.95	23.95

Scorpion High-Performance 2-Ch Motor Controllers

Great for small to medium sized robots. Using the latest automotive-grade power ICs to offer power handling and load protection not found in other controllers this size. It also features an automatic failsafe shutoff if R/C signal is lost. FLASH-based microcontroller.

2204066: 4.8V to 28V battery voltage, 12.5A continuous current (45A peak) per channel or 25A in single channel, current/over-temp limiting.

2204074

2204074: 6V to 28V battery voltage, 20A cont. current (45A peak) per channel or 25A cont. when used with a fan (sold separately), Lipo battery cutoff option.

Part No.	Mfr. Part No.	Sugg. Robot Weight	Size (L" x W" x H")	Wt. (oz.)	Price
2204066	Scorpion XL	30 lbs. (max.)	2.7 x 1.6 x 0.5	1.0	$94.95
2204074	Scorpion XXL	90 lbs. (max.)	3.3 x 2.3 x 0.5	1.8	119.95

Pololu High Power Motor Driver

- N-channel MOSFET H-bridge enables bidirectional control one of DC brushed motor
- 15 amps continuous output current per channel without heat sink • 5.5-30V operating voltage range
- Able to provide 21A continuous current with a heat sink
- Only 2 I/O lines allow for both sign magnitude and locked-antiphase operation • 40kHz max. PWM frequency
- 5.5V max. logic voltage • Soldering required

Part No.	Mfr. Part No.	Size (L" x W")	Wt. (gram/oz.)	1	5
2128235	755	0.8 x 1.3	2.8/0.1	$39.95	$37.95

JAMECO KitPro DC Motor Speed Control Kit

This kit uses Pulse Width Modulation (PWM) to vary the speed of a DC motor and maintain torque.
- For use with motors up to 100VDC/5A max.
- Intermediate level kit
- Total of 35 pieces
- Requires a 5-16VDC supply (Not included, recommend P/N 114825, pg. 93)

★Web Code: VBA

Part No.	Cross Ref. No.	Size (L" x W" x H")	1	5
127829	GMC-1102	3.6 x 2.3 x 1.2	$39.95	$36.95

MOTION USB Stepper Controller & Driver

- Easy to set up; easy to use
- Daisy chainable on a 4 wire bus
- 1 Amp chopper (PWM) drive
- Operates from 9-30V • USB/RS232/RS485 interface
- Go Left/Right upon switch closure
- 2 direction and 2 limit switch inputs
- Potentiometer-settable speed and current

★Web Code: VBA

Part No.	Mfr. Part No.	Size (L" x W" x D")	1	5
2123311	Intelli-Inch-LR	1.0 x 1.0 x 0.5	$74.95	$69.95

★Motor Controllers — Enter Web Code VBA

4-Ch DC Motor Controller with Encoder Support

- Each channel rated for 4A of stall current
- Built-in control logic allows 2-pin motor control (one pin for speed, one pin for direction)
- Low resistance FET H-bridges
- Motor supply: 12VDC max.
- Designed for the Rover 5 chassis (P/N 2143865, pg 153)
- Size: 3.75"L x 2.75"W

Includes: Quadrature encoder mixing circuit

Part No.	Mfr. Part No.	1	5
2150539	RS011MC	$21.95	$19.95

MegaMoto Plus H-Bridge Shield for Arduino

- Supply Voltage: 5-28V (24V max battery)
- 20A continuous (25A when used with a fan)
- 40A surge current (5 seconds), over 1100W
- Stack up to three on an Arduino Uno to drive up to six motors in half-bridge mode.
- Control with Arduino PWM pins and even control other DC loads like solenoids or relays.

Part No.	Mfr. Part No.	Wt. (oz.)	Price
2204023	MegaMoto Plus	1.3	$59.95

Electromech

★For additional products, availability and specifications visit *Jameco.com* and enter the Web Code in the product search box

Electromech

Simple H-Bridge (H-Bridge Circuit)

- Designed for driving DC motors and DC loads
- Activate via 555 timers, MCUs or 3V to 5V logic level signals
- Supply voltage: 5V to 28V (24V max. battery rating)
- 20A continuous (25A with fan), >45A surge current
- Size: 2.5"L x 2.25"W   • Weight: 1.32 oz.

NEW MARKED IN PINK

Part No.	Mfr. Part No.	Price
2204082	SIMPLE-H	$49.95

2x15A DC Motor Driver

- Perfect for high-power 4WD mobile robot platforms
- Uses 4 high-performance BTS7960 driver chips
- Control 2 motors with 4 digital I/Os
- Input voltage: 4.8V to 35VDC
- Max. output/channel: 15A @ 13.8V (20A peak)
- Short circuit, overheat and over-voltage protection
- Size: 3.0"L x 2.68"W x 0.55"H

NEW MARKED IN PINK

Part No.	Mfr. Part No.	1	5
2190848	DRI0018	$49.95	$44.95

6-Channel USB Servo Controller

- 5-16V operating voltage
- USB, TLL (5V) serial & internal scripting
- 0.25µs resolution with built-in speed and acceleration control
- Configure channels as outputs for RC servos, ESCs, digital outputs or analog inputs
- 1kB internal script memory
- Can be daisy-chained
- Free configuration control app for Windows®
- Size: 1.2"L x 0.85"W

Part No.	Mfr. Part No.	1	5
2128180	1350	$19.95	$18.95

★ *Shields for Arduino — Enter Web Code AOS*

Servo Motors & Accessories

- + pulse width 1500µsec. neutral control system
- Operating voltage range: 4.8V to 6V

2128198   395760   358635   395786   2124971

★ *Web Code: FVD*

Motors

Part No.	Manufacturer Part No.	Oper. Speed (4.8V@no load)	Stall Torque @ 4.8V (kg.cm)	Direction	Operating Angle	Current Drain (mA, idle/ mA no load)	Dimensions (L" x W" x H")	Pricing 1	Pricing 5
2128198	105*	.12sec/60°	0.6	Clockwise	—	—	0.8 x 0.3 x 0.8	$9.95	$8.95
2150416	RS001A	.10sec/60°	1.5	Clockwise	—	—	0.9 x 0.5 x 1.0	4.95	4.49
2214601	RS001B	.08sec/60°	2.0	Clockwise	—	—	1.3 x 0.5 x 1.1	4.95	4.49
395760	HS-322HD	.19sec/60°	3.0	Clockwise	40°/one side pulse	7.4/160	1.6 x 0.8 x 1.4	14.95	13.49
358635	HS-311	.19sec/60°	3.0	Clockwise	40°/one side pulse	7.4/160	1.5 x 0.8 x 1.4	16.95	15.95
395786	HS-422	.21sec/60°	3.3	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.4	19.95	18.95
2124980	HS-485HB	.22sec/60°	4.8	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.5	19.95	17.95
2124971	HS-645MG	.24sec/60°	7.7	Clockwise	45°/one side pulse	8.8/350	1.6 x 0.8 x 1.5	37.95	33.95

* Manufacturer: Pololu Corp.

Accessories

Part No.	Description	1	5
358811	Servo gripper, 1.3" opening (compatible with all servos above)	$16.95	$15.95
396279	3 color servo wire (red, black, yellow), 22-20, 50'	15.95	14.49
2171209	Analog sensor cable, 3-pin JST female connector	1.95	1.75
2177838	12" female-to-female 3-wire servo/sensor cable	1.95	1.75
2143902	24" male-to-female twisted servo extension cable	3.75	3.49

358811   396279   2171209

Continuous & 0-180° Rotation Servos

PARALLAX   **Pololu**

Controlled easily from a BASIC Stamp or SX chip I/O pin using PBASICs or SX/B's PULSOUT commands.

- 4-6VDC @ ~190mA

★ *Web Code: FVD*   **2128201**

2128201: 2 ball bearings on the output shaft for reduced friction
2110692/283021: Holds position over 180° range; standard servo
283039: Bidirectional continuous rotation and includes an adjustable potentiometer port to center the servo

Part No.	Mfr.	Mfr. Part No.	Stall Torque @ 6V	Size (L" x W" x H")	Weight (oz.)	1	5
2201615	ReliaPro	CYS-S3003	38.88 oz.-in	1.6 x 0.8 x 1.5	1.75	$10.95	$9.95
2128201	Pololu	1248	66.7 oz.-in	1.7 x 0.8 x 1.6	1.55	13.95	12.95
283021	Parallax	900-00005	43.1 oz.-in	2.2 x 0.8 x 1.6	1.55	14.95	13.95
283039	Parallax	900-00008	47 oz.-in	2.2 x 0.8 x 1.6	1.50	14.95	13.49
2110692	Parallax	900-00014	19.4 oz.-in	0.9 x 0.37 x 0.61	0.31	14.95	13.95

StepperStack R5 Motor Controller

- For small to medium sized stepper motors
- Up to 3.5A output current
- Onboard microcontroller firmware lot of power in a small module   • Size: 1.35"L x 0.9"W

NEW MARKED IN PINK

Part No.	Mfr. Part No.	1	5
2210221	DGSSV2R5	$69.95	$66.95

12VDC Solenoid Valve

JAMECO ReliaPro

- Current: 350mA
- Operating voltage: 12VDC
- Dimensions: 1.2"L x 0.92" Dia.
- Air leakage: 4psi, 1c.c./min. max.
- 0.250" quick disconnect terminals
- Operational temp.: -29°C to 85°C

★ *Web Code: MEJ*

Part No.	Cross Ref. No.	1	5	25
169835	TAV-0829-R	$10.95	$9.95	$8.95

12VDC & 24VDC Continuous Push/Pull Solenoids

JAMECO ReliaPro

★ *Web Code: MEJ*

1919385   262247   262272   262167   142464   2202335   2196748

2201818   149754   149762   1919203

Part No.	*Mfr.	Product No.	Type	Volt. (VDC)	Coil Res. (±10%) (Ω)	Power Consump. (W)	Holding Force (lbs.@20°C)	Stroke (in.)	Dimensions Length x Dia. (in.)†	Shaft Dia. (in.)	Wt. (lbs.)	Pricing 1	Pricing 5	Pricing 25
1919385	JRP	SMO-0420S12STD	Open frame-push	12	120	1.2	0.04	0.1	1.4 x 0.5 x 0.4	0.06	0.02	$12.95	$11.49	$9.95
262247	JRP	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.20	0.04	10.95	9.95	8.95
262272	JRP	SMO-0837S12STD	Open frame-push	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	8.95	7.95	6.95
262167	JRP	SMT-1325L12STD[2]	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.20	0.05	14.95	13.45	11.95
142464	JRP	SH-T1130L-12VDC[1]	Tubular-pull	12	36	4.0	0.63	0.4	1.6 x 0.4	0.15	0.04	11.95	10.95	9.95
2202335	JRP	SHE-T0637**	Tubular-pull	12	27	12	1.3	0.5	2.0 x 0.75	0.25	0.17	7.95	6.95	6.25
2196748	JRP	SH-T2551L	Tubular-pull	12	15	10	4.0	1.5	3.1 x 0.87	0.12	0.39	15.95	14.49	12.95
2201818	JRP	SH-T2551	Tubular-pull	24	60	40	4.0	1.0	3.1 x 0.87	0.12	0.39	16.95	15.49	13.95
149754	JRP	SMT-1325S12A[2]	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	19.95	17.95	15.95
149762	JRP	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	16.95	15.25	13.75
1919203	LEX	191172-001	Stroke-push	12	45	7.3	—	0.125	1.0 x 0.5	0.06	0.10	4.49	3.95	3.59

● JRP = Jameco ReliaPro
LEX = Ledex

† Open frame type dimensions: L" x W" x H"   *Dual shaft   **2-pin Molex connector   [1] P/N 281852 (pg 79)   [2] P/N 2182611 (pg 79) – additional panel mounting hardware available

Call for additional OEM PRICING – we carry major manufacturers.

DC Brushless Tubeaxial Fans & Blowers

★ **5V Web Code: TAS** ★ **12V Web Code: LBZ**

mm to Inches Conversion Chart
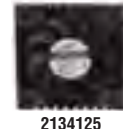
695050   **2134125**   **2131944**

mm	6	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
2095277	Adda	AD2005LX-G70-LF	5	20 x 20 x 10	0.6	Hypro	80	0.4	UL/CUL/CSA/TUV/CE	20	5.5"	$4.95	$3.95	$3.49	$2.95
2131872	Adda	AD0205MX-K53-LF	5	25 x 25 x 6	2.2	Hypro	120	0.6	UL/CUL/TUV/CE	27.5	6" 1	8.95	7.95	6.95	5.95
131247	Adda	AD0205LX-G50-LF	5	25 x 25 x 10	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	8.95	7.95	7.49	6.49
695050	Sunon	GM0502PFV2-8	5	25 x 25 x 10	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	10.95	9.95	8.95	7.95
1708481	Sunon	KDE0502PHB3-8 (MS)	5	25 x 25 x 15	1.8	Ball	80	0.4	UL/CUL	16	4"	6.95	5.95	5.25	4.59
1951220	Sunon	KDE0503PEB3-8.MS.N	5	30 x 30 x 6.8	2.4	Ball	70	0.35	UL/TUV/CE	16.5	6"	3.95	3.49	2.95	2.49
1928311	Adda	AD0305LB-K70	5	30 x 30 x 6.8	2.5	Ball	60	0.3	UL/CUL/TUV/CE	18.5	6"	3.95	3.49	2.95	2.49
1951211	Sunon	KDE0503PEV1-8.MS.N	5	30 x 30 x 6.8	4.9	Vapo	180	0.9	UL/TUV/CE	24.8	6"	3.95	3.49	2.95	2.49
2095293	Adda	AD305HB-D50-LF	5	30 x 30 x 15	3.7	Ball	130	0.65	UL/CUL/TUV/CE	22.5	11"	3.95	3.49	2.95	2.49
2134096	Adda	AD3505MX-G53	5	35 x 35 x 10	6.0	Hypro	130	0.65	UL/CUL/TUV/CE	30	5.5" 1	4.95	4.49	3.95	3.49
1708457	Sunon	KDE0504PEB3-8 (MS)	5	40 x 40 x 6.8	3.5	Ball	90	0.45	UL/CUL/TUV	20	6"	4.95	4.49	3.95	3.59
2167242	Adda	AD0405LB-K90(S)-LF	5	40 x 40 x 6.8	4.5	Ball/Sleeve	50	0.25	UL/CUL/CE	19.9	5.4"	7.95	6.95	6.25	5.95
2132031	Adda	AD0405HX-KC3(Y14X)LF	5	40 x 40 x 6.8	5.9	Hypro	60	0.6	UL/CSA/TUV/CE	27	5.5" 1	4.95	4.49	3.95	3.49
2133886	Adda	AD0405LX-G70	5	40 x 40 x 10	4.7	Hypro	80	0.40	UL/CUL/TUV/CE	21	11"	5.95	5.39	4.79	4.39
2138628	Adda	AD0405MB-G70-LF	5	40 x 40 x 10	5.7	Ball	110	0.55	UL/CUL/TUV/CE	22	12"	8.95	7.95	6.95	6.49
2131928	Adda	AD0405MX-G76-LF	5	40 x 40 x 10	5.7	Hypro	110	0.55	UL/CUL/TUV/CE	15.9	11" 2	4.95	4.49	3.95	3.49
1581265	Sunon	KDE0504PFS1-8	5	40 x 40 x 10	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.59	4.95
2131910	Adda	AD0405MX-C50-LF	5	40 x 40 x 20	8.1	Hypro	160	0.8	UL/CUL/CE	27	5.5"	4.95	3.95	3.49	2.95
1951406	Delta	AFB0405HD-ROO	5	40 x 40 x 20	8.5	Ball	400	2.0	UL/CUL/TUV/CE	33	12" 1	5.95	4.95	3.95	3.49
2134109	Adda	AD4505HB-K90	5	45 x 45 x 6	9.5	Ball	140	0.70	CE	33	5"	4.95	4.49	3.95	3.49
2134125	Adda	AP0505HB-J90§	5	50 x 50 x 8	6.0	Ball	120	0.60	UL/CUL/CE	30	5"	4.95	4.49	3.95	3.49
136494	Delta	AFB0505LA	5	51 x 51 x 10	7.4	Ball/Sleeve	80	0.4	UL/CE/CSA/VDE	26	11"	5.95	4.95	3.95	3.49
2150774	Adda	AD0505MB-G70-LF	5	51 x 51 x 10	10.5	Ball	180	0.9	UL/CUL/TUV/CE	24	12"	9.95	8.95	8.49	7.95
2186241	Sunon	KDE0505PFV111.MS.AGN	5	51 x 51 x 10	13	Vapo	270	1.4	UL/CUL/VDE	30	16" w/conn	9.95	8.95	7.95	6.95
2131961	Adda	AD0605MX-D71GL-LF	5	60 x 60 x 15	14.2	Hypro	250	1.25	UL/CSA/TUV/CE	28.8	5"	2.95	2.49	1.95	1.59
2081756	Adda	AD0605HB-D71GL	5	60 x 60 x 15	16.6	Ball	370	1.8	UL/CUL/CE	32	6"	4.95	4.49	3.95	3.49
1951414	Delta	AFB0605HD	5	60 x 60 x 20	16.6	Ball	240	1.2	UL/CUL/TUV/CE	28	12"	4.95	3.95	3.49	2.95
134869	Delta	AFB0605M	5	60 x 60 x 25	16.2	Ball	220	1.1	UL/CE/CSA/TUV	24.5	12"	4.95	4.49	3.95	3.49
2131944	Adda	AD0605HB-A70-LF	5	60 x 60 x 25	23.2	Ball	450	2.25	UL/CUL/TUV/CE	32	11"	4.95	4.49	3.95	3.49
1951078	Mechatronics	F6025E05B2-FS	5	60 x 60 x 25	24	Ball	700	3.5	UL/CUL	36	12" 2	4.95	4.49	3.95	3.49
2131881	Adda	AD0212MX-K53-LF	12	25 x 25 x 6	2.2	Hypro	80	0.4	UL/CSA/TUV/CE	23	6" 1	7.95	6.95	5.95	4.95
2095306	Adda	AD0212MB-K50 (S)-LF	12	25 x 25 x 6	2.4	Ball/Sleeve	90	1.08	UL/CUL/TUV/CE	26	5.5"	11.95	10.95	10.49	9.95
2179454	Jamicon	KF0210S1H	12	25 x 25 x 10	2.57	Sleeve	120	1.44	UL/CUL/TUV	27.4	12"	5.95	5.25	4.59	3.95
1708449	Sunon	KDE1202PFB1-8 (V)	12	25 x 25 x 10	3.1	Ball	83	1.0	UL/CUL	33	6"	7.95	6.95	5.95	4.95
2133851	Adda	AD0312DX-G50 (GL)	12	30 x 30 x 10	1.8	Hypro	60	0.3	CE	17	5.5"	4.95	3.95	3.49	2.95
2133860	Adda	AD0312DX-G53	12	30 x 30 x 10	1.8	Hypro	60	0.3	UL/CUL/TUV/CE	17	5.5" 1	4.95	4.49	3.95	3.49
1708465	Sunon	KDE1203PFB2-8 (MS)	12	30 x 30 x 10	4.2	Ball	66	0.8	UL/CUL	25	6"	3.95	3.49	2.95	2.49
212784	Sunon	KDE1203PFB1-8V	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	4"	3.95	3.49	2.95	2.49
212783	Sunon	KDE1203PFB1-8	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	7.95	6.95	5.95	4.95
1928134	Adda	AD0312HB-D50	12	30 x 30 x 15	4.2	Ball	110	1.3	UL/CUL/TUV/CE	22.5	3" w/ conn	3.95	3.49	2.95	2.49
212741	Sunon	KDE1235PFB2-8	12	35 x 35 x 10	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	3" w/ conn	7.95	6.95	5.95	4.95
2179411	Sunon	MC35101V1-0000-A99	12	35 x 35 x 10	7.0	Vapo	60	0.72	UL/CSA/TUV/CE	28	6"	11.95	10.95	9.95	8.95
2186224	Delta	FFB03812VHN-F00	12	38 x 38 x 28	20.2	Ball	65	7.8	UL/CSA/VDE/CE	58.5	13" 1	7.95	6.95	6.25	5.95
2099500	Adda	AD0412HB-K96 (S)	12	40 x 40 x 6	5.8	Ball	80	0.72	UL/CUL/TUV/CE	31	5.5" 1	8.95	7.95	6.95	6.25
2215435	Adda	AD0412HX-K96 (X)	12	40 x 40 x 6	5.4	Hypro	72	0.96	UL/CUL/TUV/CE	30.5	5.5" 1	8.95	7.95	6.95	6.25
2167630	Sunon	HA40101V4-0000-999	12	40 x 40 x 10	5.3	Vapo	65	0.8	UL/TUV/CE	18.2	12"	6.95	6.25	5.59	4.95
2133915	Adda	AD0412MX-G70	12	40 x 40 x 10	5.7	Hypro	80	0.96	UL/CUL/TUV/CE	20	11.5"	5.95	5.39	4.79	4.39
2205384	Adda	AD0412HB-G70(T)	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	12"	7.95	6.95	6.25	5.59
2179753	Sunon	MB40101V2-000U-A99	12	40 x 40 x 10	7.0	Vapo	80	1.0	UL/CUL/TUV/CE	27	12" w/ conn	4.95	4.59	4.25	3.95
2133923	Adda	AD0412UX-G70	12	40 x 40 x 10	7.0	Hypro	100	1.2	CE	25	11"	3.95	3.59	3.25	2.95
2167234	Sunon	ME40101V1-0000-A99	12	40 x 40 x 10	8.0	Vapo	104	1.25	UL/CUL/TUV	32	12"	4.95	4.49	3.95	3.49
1708473	Sunon	KDE1204PFVX11.MS.A	12	40 x 40 x 10	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	5.95	4.95	4.49	3.95
2162821	Delta	AFB0412HHB	12	40 x 40 x 15	5.7	Ball	90	1.08	UL/CUL/CSA/TUV	35	12"	5.95	5.39	4.79	4.29

1 3 leads; speed sensor   2 3 leads; locked rotor protection   (All fans operate to their specs with or without the additional optional wire functions)   § DC chip cooler

For case mounting screws, P/Ns 2188481 or 2188490, page 79

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DC Brushless Tubeaxial Fans & Blowers (Continued)

★ 12V Web Code: LBZ

1950446 **2210909** **2099446**

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	1	10	50	100
2133894	Adda	AD0412HB-D56	12	40 x 40 x 15	9.2	Ball	120	1.44	UL/CUL/TUV/CE	39	11" [1]	$4.95	$4.49	$3.95	$3.49
195899	Sunon	KDE1204PKS2	12	40 x 40 x 20	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	4.95	4.49	3.95	3.59
2151021	Sanyo Denki	109P0412H601	12	40 x 40 x 20	8.0	Ball	110	1.3	UL/CSA	33	7" w/ conn [1]	6.95	5.95	4.95	4.49
2133907	Adda	AD0412MB-C50	12	40 x 40 x 20	8.5	Ball	80	0.96	UL/CUL/TUV/CE	28.5	11"	5.95	5.39	4.79	4.39
2082100	Sunon	KDE1204PKBX-8	12	40 x 40 x 20	10	Ball	90	1.1	UL/TUV/CE	29.4	4"	7.95	6.95	6.25	5.59
2202845	Sunon	KDE1204PKBX-8	12	40 x 40 x 20	10	Ball	90	1.1	UL/TUV/CE	29.4	17" w/ conn	9.95	8.95	7.95	6.95
1928118	Adda	AD0412HB-C50	12	40 x 40 x 20	10.5	Ball	100	1.2	UL/CUL/TUV/CE	31.9	12"	8.95	7.95	6.95	6.25
2135380	Adda	AD0412UB-C72GP(P)	12	40 x 40 x 20	10.6	Ball	170	2.4	UL/CUL/TUV/CE	34	12" [2]	9.95	8.95	7.95	6.95
2188465	Sunon	PMD1204PBB1-A	12	40 x 40 x 24	23.5	Ball	780	9.4	UL/TUV/CE	55	12"	10.95	9.95	8.95	7.95
2186232	Delta	FFB0412HN-5T20	12	40 x 40 x 28	10.6	Ball	110	0.84	UL/CSA/TUV	36	3.5" w/ conn [1]	5.95	5.39	4.79	4.29
2082089	Sanyo Denki	109P0412H302	12	40 x 40 x 28	11.3	Ball	195	2.3	UL/CSA/TUV	37	3.75"	6.95	5.95	5.49	4.95
1918809	Jamicon	KF0510B1M	12	50 x 50 x 10	9.27	Ball	80	0.8	UL/CUL/TUV/CE	26.6	10.5"	3.95	3.49	2.95	2.49
2095349	Adda	AD0512MB-G76	12	50 x 50 x 10	10.5	Ball	120	1.4	UL/CUL/TUV/CE	24	11" [1]	9.95	8.95	7.95	6.95
1950446	Sunon	KD1205PFB1(2)H	12	50 x 50 x 10	11.4	Ball	130	1.6	UL/TUV	34.7	12"	7.95	6.95	6.25	5.59
2202992	Sunon	ME50101V1-000U-A99	12	50 x 50 x 10	13.8	Vapo	110	1.3	UL/CUL/TUV	31	12"	7.95	6.95	6.25	5.95
2134117	Adda	AD5012LX-D70	12	50 x 50 x 15	10.4	Hypro	80	0.96	UL/CUL/TUV/CE	22.7	5.5"	6.95	6.25	5.59	4.95
139601	Adda	AD0512HS-D71	12	50 x 50 x 15	12	Sleeve	100	1.2	UL/CSA/CE	29	5"	3.95	3.49	2.95	2.49
139602	Adda	AD0512HS-D71-LF	12	50 x 50 x 15	12	Sleeve	100	1.2	UL/CSA/CE	29	6"	8.95	7.95	6.95	6.25
2203004	Sunon	MB50151V1-000U-A99	12	50 x 50 x 15	17	Vapo	87	1.05	UL/CE/TUV/CUL	33	12"	8.95	7.95	6.95	6.25
2133991	Adda	AD0612LX-G70	12	60 x 60 x 10	10.0	Hypro	120	1.44	UL/CUL/TUV/CE	26	11"	6.95	6.25	5.59	4.95
2205499	Adda	AD0612HB-G90	12	60 x 60 x 10	14.06	Ball	250	3.0	UL/TUV/CE	33.8	4.5" w/ conn	6.95	6.25	5.49	4.95
2095357	Adda	AD0612HB-G70	12	60 x 60 x 10	14.5	Ball	150	1.8	UL/CUL/TUV/CE	32	11"	8.95	7.95	6.95	6.25
1946025	Evercool	EC6010M12CA	12	60 x 60 x 10	15.5	Ball	160	1.9	UL/CE/TUV	30	9" [1]	8.95	7.95	6.95	6.25
2210909	Delta	AFB0612LB-TXNS	12	60 x 60 x 15	11.55	Ball	100	0.84	UL/CSA/CE	24	6" w/ conn	5.95	4.95	4.49	3.95
2121308	Adda	AD0612HB-D70GL	12	60 x 60 x 15	16.6	Ball	130	1.56	UL/CSA/TUV/CE	32.4	11" w/ conn	6.95	5.95	4.95	3.95
687771	Sunon	KDE1206PHS1	12	60 x 60 x 15	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	11"	3.95	3.49	2.95	2.49
2167568	Sunon	ME60151V1-0000-A99	12	60 x 60 x 15	25.2	Vapo	160	1.92	UL/TUV/CE	36.2	12"	6.95	5.95	5.49	4.95
144161	Adda	AD0612LB-C70GL	12	60 x 60 x 20	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	12"	7.95	6.95	6.25	5.95
2133982	Adda	AD0612LS-C70(GL)	12	60 x 60 x 20	13.3	Sleeve	80	0.96	UL/CSA/TUV	21.6	12"	3.95	3.49	2.95	2.49
2134002	Adda	AD0612MS-C70GL	12	60 x 60 x 20	14.5	Sleeve	130	1.56	UL/CSA/TUV	25.7	12"	4.95	4.49	3.95	3.49
2134011	Adda	AD0612MX-C70GL	12	60 x 60 x 20	14.5	Hypro	130	1.56	UL/CSA/TUV	25.7	12"	4.95	4.49	3.95	3.49
2120073	Sunon	KD1206PKB2(2)F.GN	12	60 x 60 x 20	19	Dual ball	88	1.1	UL/CUL/TUV	29	12" [1]	6.95	6.25	5.59	4.95
2155292	Comair Rotron	GDA6025-12BB	12	60 x 60 x 25	18	Ball	140	1.7	UL/CUL/TUV	26.1	12"	5.95	4.95	4.25	3.95
2162847	NMB	2410ML-04W-B30	12	60 x 60 x 25	19	Ball	120	1.4	UL/CSA/VDE/CE	29	12"	5.95	4.95	4.25	3.95
2205149	Sunon	MB60251V2-000U-G99	12	60 x 60 x 25	19.3	Vapo	70	0.8	UL/CUL/CE/TUV	29	12" [1]	9.95	8.95	7.95	6.95
102947	Jamicon	JF0625S1H	12	60 x 60 x 25	20.5	Sleeve	230	2.7	UL/CUL/TUV	33.6	12"	5.95	5.49	4.95	3.95
2186179	Sunon	KDE1206PTS1	12	60 x 60 x 25	22.5	Sleeve	150	1.9	UL/CUL/TUV	33.5	3" w/ conn	4.95	4.49	3.95	3.59
2133974	Adda	AD0612HX-A70GL	12	60 x 60 x 25	23.2	Hypro	230	2.76	UL/CSA/TUV/CE	32.3	12"	4.95	4.49	3.95	3.59
2150766	Adda	AD0612HB-A72GL	12	60 x 60 x 25	23.2	Ball	230	2.7	UL/CUL/TUV/CE	32.3	12" [2]	7.95	6.95	5.95	4.95
2158451	Sunon	EB60251S1-0000-999	12	60 x 60 x 25	23.5	Sleeve	156	1.6	UL/CUL/TUV	33.5	12"	8.95	7.95	6.95	6.25
2162839	EBM Papst	TYP612	12	60 x 60 x 25	24	Ball	210	2.5	UL/CSA/TUV	40	12"	9.95	8.95	7.95	6.95
2158311	Delta	AFB0612EH-BF00	12	60 x 60 x 25	38.35	Ball	480	5.76	UL/CSA/CE	46.5	8" w/ conn [1]	11.95	10.95	9.95	8.95
2125561	AVC	DE07015R12U	12	70 x 70 x 15	43	Hydraulic	700	8.4	UL/CE/TUV	46	8" w/ conn	5.95	4.95	3.95	2.95
2099446	Adda	AD7512LB (2A)†	12	76 x 76 x 30	6.9	Ball	110	1.32	UL/CUL/TUV/CE	29	15" w/ conn [2]	5.95	4.95	3.95	2.95
2192561	Adda	AD0812LB-D70(T)	12	80 x 80 x 15	20	Ball	90	1.08	UL/CSA/TUV	19.6	12"	7.95	6.95	5.95	5.49
2132007	Adda	AD0812HS-D70-LF	12	80 x 80 x 15	38.6	Sleeve	250	3.0	UL/CSA/TUV	33	12"	7.95	6.95	5.95	4.95
2095365	Adda	AD0812XX-D71	12	80 x 80 x 15	39.4	Hypro	350	4.2	UL/CSA/TUV	42	11"	8.95	7.95	6.95	5.95
2134037	Adda	AD0812MS-C70	12	80 x 80 x 20	23.1	Sleeve	160	1.92	UL/CSA/TUV	25.4	11"	8.95	7.95	6.95	5.95
141921	Adda	AD0812HB-C70	12	80 x 80 x 20	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	10.95	9.95	8.95	7.95
688597	NMB	3110GL-B4W-B19-PA1	12	80 x 80 x 25	24.7	Ball	120	1.2	UL/CSA/TUV/CE	22	12" w/ conn [1]	5.95	5.35	4.79	4.29
2205181	Delta	AFB0812M-F00	12	80 x 80 x 25	30.8	Ball	180	1.08	UL/CSA/CE	29.5	12" [1]	9.95	8.95	7.95	6.95
2151099	Sunon	KDE1208PTV3.13.MS.A.GN	12	80 x 80 x 25	31	Vapo	70	0.8	UL/CUL/TUV/CE	26	12"	6.95	5.95	4.95	4.49
123530	Adda	AD0812MS-A70GL	12	80 x 80 x 25	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	7.95	6.95	6.25	5.59
1955010	NMB	3110KL-04W-B40	12	80 x 80 x 25	35.3	Ball	200	2.40	UL/CSA/TUV/CE	31	13"	6.95	6.25	5.59	4.95
2131995	Adda	AD0812HS-A76GL-LF	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CSA/TUV	33	12" [1]	3.95	3.49	2.95	2.49
2162812	Mechatronics	F8025H12B	12	80 x 80 x 25	39	Ball	145	1.75	UL/CUL/VDE	29	12"	4.95	4.49	3.95	3.59

[1] 3 leads; speed sensor   [2] 3 leads; locked rotor protection   (All fans operate to their specs with or without the additional optional wire functions)   † Blower

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DC Brushless Tubeaxial Fans & Blowers (Continued)

★ **12V Web Code: LBZ** ★ **24V Web Code: QEF**

1809995   2217756

mm to Inches Conversion Chart

mm	6	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing 1	10	50	100
2135697	Panaflo	FBM-08A12H	12	80 x 80 x 25	39.6	Sleeve	220	2.1	UL/CSA	32	12" w/ conn	$4.95	$3.95	$3.49	$2.95
2125835	Globe	B01138812H-3M	12	80 x 80 x 25	39.8	Ball	230	2.76	UL/CSA/TUV/CE	32.6	10" w/ conn[1]	3.95	3.49	2.95	2.49
2205157	ValuePro	RD8025B12N30	12	80 x 80 x 25	40.2	Dual Ball	140	1.7	UL/CUL/TUV	35.4	12"	8.95	7.95	6.95	6.25
1708490	Sunon	KDE1208PTB1-13.MS(2)A	12	80 x 80 x 25	41	Dual Ball	150	1.8	UL/CUL/TUV/CE	35	12"	5.95	4.95	4.49	3.95
2210984	Sunon	EE80251B1-0000-A99	12	80 x 80 x 25	41	Ball	145	1.7	UL/CUL/TUV/CE	33	12"	7.95	7.49	6.95	6.25
249148	Sunon	KDE1208PTB1-6(OC)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	7"	5.95	4.95	3.95	3.49
323897	Mechatronics	F8025E12BFS	12	80 x 80 x 25	46	Ball	240	3.5	UL/CSA/TUV	35	12"	6.95	6.25	5.59	4.95
1809995	Sunon	KDE1208PTBX-6A(318)	12	80 x 80 x 25	50.6	Ball	360	4.3	UL/CUL/TUV	40.5	12"	8.95	7.95	6.95	5.95
2081078	Jamicon	JF0825B1UR	12	80 x 80 x 25	52	Dual Ball	370	4.4	UL/CUL/TUV	40	12"	9.95	8.95	7.95	7.49
2210933	Sunon	PF80251V1-0000-A99	12	80 x 80 x 25	60	Vapo	341	4.1	UL/CUL/TUV	46.5	12"	12.95	11.95	10.95	9.95
2209001	Sanyo Denki	9GV0812P4K03	12	80 x 80 x 25	74.8	Ball	870	10.4	UL/CUL/TUV	52	12"[5]	14.95	13.95	12.95	11.95
107406	EBM Papst	8312GHL	12	80 x 80 x 32	39.4	Sleeve	330	4.0	UL/CE/CSA/VDE	43	12"	4.95	4.49	3.95	3.49
1952783	Nidec	TA350DC-M34138-34	12	92 x 92 x 25	35	Ball	160	1.92	UL/CSA	26.4	10" w/ conn[3]	4.95	4.49	3.49	2.95
1952257	AVC	C9025S12L	12	92 x 92 x 25	37.2	Sleeve	150	1.8	UL/CUL/TUV/CE	26.2	5.5" [1]	3.95	3.49	2.95	2.49
1952880	Nidec	TA350DC-M33422-57G4	12	92 x 92 x 25	48	Ball	290	3.48	UL/CSA	35	10" w/ conn[4]	4.95	3.95	2.95	2.49
154641	Nidec	TA350DC-M33422-16	12	92 x 92 x 25	48	Ball	290	3.5	UL/CSA	43	12"	9.95	8.95	7.95	6.95
2115565	Sunon	KD1209PTS1.13.GN	12	92 x 92 x 25	49	Sleeve	160	1.9	UL/CUL/TUV/CE	34	11"	4.95	4.49	3.95	3.49
2138994	Adda	AD0912UB-A71GL	12	92 x 92 x 25	60	Ball	390	4.68	UL/TUV/CE	39.4	50"	8.95	7.95	6.95	5.95
2172711	Mechatronics	MC9238X12B-FS	12	92 x 92 x 38	80.5	Ball	720	8.6	UL/CUL/TUV	47.5	12"	8.95	7.95	6.95	5.95
174140	Common Wealth	FP108MS3	12	120 x 120 x 25	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	9.95	8.95	7.95	6.95
227901	Common Wealth	FP-108M-S1-B	12	120 x 120 x 25	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	11.95	10.95	9.95	8.95
2134053	Adda	AD1212MB-A78GL	12	120 x 120 x 25	80.5	Ball	330	3.96	UL/CUL/TUV/CE	38	11" [6]	10.95	9.95	8.95	7.95
1928011	Adda	AD1212US-A71GL	12	120 x 120 x 25	98.6	Sleeve	500	6.0	UL/CUL/TUV/CE	39.1	2" w/ conn	6.95	5.95	4.95	3.95
2082151	Comair Rotron	MC12B3QDN	12	120 x 120 x 32	102	Ball	660	7.9	UL/CSA/CE	47.8	12" [2]	6.95	5.95	4.95	4.49
868109	Comair Rotron	MC12B7	12	120 x 120 x 32	102	Ball	660	7.9	UL/CSA/CE	47.9	12"	7.95	6.95	5.95	4.95
2134045	Adda	AD1212LB-F51	12	120 x 120 x 38	72.3	Ball	240	2.88	UL/CUL/TUV	32.9	11"	9.95	8.95	7.95	6.95
2155057	Sanyo Denki	109R1212M102	12	120 x 120 x 38	81	Ball	240	4.6	UL/CSA/TUV	36	12"	8.95	7.95	6.95	5.95
2217756	Sanyo Denki	109R1212H1D01	12	120 x 120 x 38	102.4	Ball	520	4.7	UL/CSA/TUV	39	12"[1]	10.95	9.95	8.95	7.95
2211012	EBM Papst	4112GX	12	120 x 120 x 38	94	Sleeve	290	3.5	UL/CSA/CE	44	Terminals	11.95	10.95	9.95	8.95
2173079	Sunon	EEC0381B2-0000-A99	12	120 x 120 x 38	108	Ball	421	5.1	UL/CUL/TUV/CE	44	12"	14.95	13.95	12.95	11.95
1952791	NMB	4715KL-04W-B46	12	120 x 120 x 38	118	Ball	900	8.4	UL/CSA/TUV/CE	47	6" w/ conn[2]	7.95	6.95	6.25	5.59
2197564	T&T	MWP1238M12B	12	120 x 120 x 38	119.6	Dual Ball	700	8.4	UL/TUV	42.6	12" w/ conn	10.95	9.95	8.95	7.95
2197716	Thermactive	RGH1238-B1-FG	12	120 x 120 x 38	226	Ball	3600	43.2	UL/CUL/CE	65	12"[1]	21.95	19.49	16.95	14.95
1928281	Adda	AD0424HB-G70	24	40 x 40 x 10	6.7	Ball	90	2.16	UL/CUL/TUV/CE	25	7" w/ conn	10.95	9.95	8.95	7.95
2133931	Adda	AD0424HB-G73	24	40 x 40 x 10	6.7	Ball	90	2.16	UL/CUL/TUV/CE	25	12" [1]	9.95	8.95	7.95	6.95
2158514	Sunon	MB40202V2-0000-A99	24	40 x 40 x 20	7.7	Vapo	33	2.16	UL/CUL/TUV/CE	21	12"	9.95	8.95	7.95	6.95
2133940	Adda	AD0424UB-C56	24	40 x 40 x 20	11	Ball	90	2.16	CE	31.9	11" [2]	8.95	7.95	6.95	5.95
1708422	Sunon	KDE2406PHS3	24	60 x 60 x 15	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	6.95	6.25	5.59
2188588	Sunon	ME60152V2-0000-A99	24	60 x 60 x 15	21.9	Vapo	85	2.04	UL/CUL/TUV/CE	32.5	12"	10.95	9.95	8.95	7.95
2134029	Adda	AD0624MB-C70GL	24	60 x 60 x 20	14.5	Ball	80	1.92	UL/CUL/CE	25.7	12"	5.95	5.39	4.79	4.39
189861	Jamicon	JF0625B2M	24	60 x 60 x 25	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	7.95	6.95	6.25
1928071	Adda	AD0624HB-A70GL	24	60 x 60 x 25	25	Ball	150	3.6	UL/CSA/TUV/CE	33.9	12"	8.95	7.95	6.95	6.25
290029	Jamicon	JF0825B2M	24	80 x 80 x 25	31.7	Ball	130	3.1	UL/CSA/TUV	29.3	10"	9.95	8.95	7.95	6.95
136161	Jamicon	JF0825B2H	24	80 x 80 x 25	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.95	8.95	7.95	6.95
2158565	Sunon	EE80252B1-0000-A99	24	80 x 80 x 25	41	Ball	73	1.8	UL/CUL/TUV	33	12"	9.95	8.95	7.95	6.95
1928388	Adda	AD0824UB-A72GL	24	80 x 80 x 25	50	Ball	260	6.24	UL/CUL/CE	41	12" [2]	10.95	9.95	8.95	7.95
2134150	Adda	AQ0824UB-A71GL ★	24	80 x 80 x 25	50	Ball	260	6.24	CE	41	12"	11.95	10.95	9.95	8.95
2211160	IMC Boxer	3113PL05WB30	24	80 x 80 x 32	28	Ball	130	3.1	UL/CUL	31	12"	8.95	7.95	6.95	6.25
1580422	EBM Papst	8314/12H	24	80 x 80 x 32	47	Ball	270	6.4	UL/CUL/CSA/VDE	48	11" w/ conn[1]	9.95	8.95	7.95	6.95
1951051	Mechatronics	E9225L24B1-FS	24	92 x 92 x 25	35	Ball	85	2.04	UL/CUL	27	12" [1]	4.95	3.95	2.95	2.49
2203071	NMB	3610PL05W-B30	24	92 x 92 x 25	41	Ball	87	2.1	UL	33	11"	7.95	6.95	6.25	5.59

[1] 3 leads; speed sensor [2] 3 leads; locked rotor protection [3] 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard [4] Thermocoupler
[5] 4 leads with speed sensor, PWM control [6] 4 wire PWM (All fans operate to their specs with or without the additional optional wire functions) ★ Waterproof
For case mounting screws, P/Ns 2188481 or 2188490, page 79

Fans

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

3 LEVELS OF SAVINGS — NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

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DC Brushless Tubeaxial Fans & Blowers (Continued)

★ 24V Web Code: QEF   ★ 48V Web Code: MAJ

NEW MARKED IN PINK

297959   1952775   2162855

mm to Inches Conversion Chart

mm	6	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	1	10	50	100
2203080	Nidec	TA350DC-A31394-55	24	92 x 92 x 25	42	Ball	140	3.12	UL	40	3" w/ conn	$4.95	$4.49	$3.95	$3.59
2215751	NMB/IMC	3610PL-05W-B20-100	24	92 x 92 x 25	43	Ball	150	3.6	UL/CUL	39	12"	5.95	4.95	4.49	3.95
2155065	Delta	AFB0924H-R00	24	92 x 92 x 25	51.2	Ball	100	2.4	UL/CSA/CE	34	12" [2]	8.95	7.95	6.95	5.95
2158303	Sunon	EE92252B1-0000-A99	24	92 x 92 x 25	51.5	Dual Ball	87	2.1	UL/CE/TUV	34	12"	11.95	10.95	9.95	8.95
2115557	Sunon	KD2412PTB3-6A.GN	24	120 x 120 x 25	69	Ball	120	2.9	UL/CUL/TUV/CE	35.5	12"	8.95	7.95	6.95	5.95
1951115	Nidec	TA450DC-A34350-16	24	120 x 120 x 25	92	Ball	180	4.32	UL/CSA	40.4	10"	10.95	9.95	8.95	7.95
2197556	Coolmax	1225M24B-ZD1	24	120 x 120 x 25	103.8	Dual Ball	300	7.2	UL/TUV	42.5	6" w/ conn	9.95	8.95	7.95	6.95
2211021	EBM Papst	4124GX	24	120 x 120 x 38	94	Sleeve	138	3.3	UL/CSA/CE	43	Terminals	12.95	11.95	10.95	9.95
694524	Jamicon	JF1238B2MR-R	24	120 x 120 x 38	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9"	15.95	14.95	13.95	12.49
2134061	Adda	AD1224HS-F51	24	120 x 120 x 38	104.8	Sleeve	320	7.68	UL/CSA/TUV/CE	42.8	10.5"	8.95	7.95	6.95	5.95
2215478	Conair Rotron	MD24B2	24	120 x 120 x 38	110	Ball	250	6.0	UL/CSA/TUV/CE	50	Terminals	10.95	9.95	8.95	7.95
1809910	Sunon	KD2412PMSX-6A	24	120 x 120 x 38	119	Sleeve	300	7.2	UL/CUL/TUV/CE	45	12"	8.95	7.95	6.95	5.95
2197433	EBM Pabst	4214NHHR	24	120 x 120 x 38	120.7	Ball	313	7.5	UL/CSA/CE	49	12"	17.95	15.95	13.49	11.95
2197724	ThermActive	RGH1238B2-FG	24	120 x 120 x 38	226	Ball	1700	40.8	UL/CUL/CE	65	12" [1]	24.95	22.49	18.95	15.95
297959	Delta	BFB1224HE†	24	125 x 126 x 34	27.2	Ball	340	8.1	UL/CE/CSA/TUV	50.5	12"	8.95	7.49	5.95	4.95
2197708	ThermActive	RDL1725B2-5T	24	172 (Dia.) x 51 (H)	235	Ball	950	22.8	UL/CUL	56	Terminals	29.95	26.95	23.95	21.95
2135371	Adda	AD0948MB-F91DS(M)	48	92 x 92 x 38	93.5	Dual ball	130	6.24	UL/CE	48.5	12"	13.95	12.95	11.95	10.49
1952775	Orion	OD1232-48HB	48	120 x 120 x 32	120	Ball	180	8.6	UL/TUV/CE	51	12" [3]	7.95	6.95	5.95	4.95
689063	EBM Pabst	W2G115-AG75-85	48	127 x 127 x 38	155	Ball	310	15	UL/CUL	52	10" [1]	11.95	10.95	9.95	8.95
2134352	Adda	AD1348HB-F53	48	127 x 127 x 38	161	Ball	230	11	UL/CUL/TUV/CE	53	11" [1]	10.95	10.49	8.95	7.95
1954711	Delta	EFB1348HHE-SV06	48	127 x 127 x 38	185	Ball	360	17.28	UL/CSA/VDE/CE	55.5	26" [1]	7.95	6.95	6.25	5.59
2162871	EBM Papst	5318/2TDH4P	48	140 x 140 x 51	394	Ball	3000	144	UL	79	10" w/ conn[3]	12.95	11.49	9.95	8.95
2162855	EBM Papst	6248M	48	172 (Dia.) x 51 (H)	206	Ball	240	11.5	UL/CSA/TUV	50	Terminals	19.95	17.95	15.95	12.95

[1] 3 leads; speed sensor   [2] 3 leads; locked rotor protection   [3] 4 Leads wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

(All fans operate to their specs with or without the additional optional wire functions)   † Blower

For case mounting screws, P/Ns 2188481 or 2188490, page 79

Fan Guards & Aluminum Washable Filters

★ Web Code: UAR

NEW MARKED IN PINK

- Guards and filters fit all fans. Please match by size dimension.
  Example: P/N 300557 fan (80mm) matches P/N 31924 metal guard (80mm).
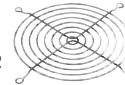
Fig. 1   Fig. 2   Fig. 3

Part No.	mm	Description	Fig.	1	10	50	100
123502	40	Metal (chrome) guard	1	$.59	$.55	$.49	$.45
120038	60	Metal (chrome) guard	1	.65	.59	.55	.49
2172851	60	Metal (gold plated) guard	2	.55	.49	.45	.39
687666	60	Metal (black anodized) guard	2	.85	.79	.75	.69
31924	80	Metal (chrome) guard	1	.69	.65	.59	.55
1928433	80	Metal (black anodized) guard	2	.79	.69	.65	.59
2172869	80	Metal (gold plated) guard	2	.59	.55	.49	.45
123511	92	Metal (chrome) guard	1	.75	.69	.65	.59
2135689	92	Metal (black anodized) guard	2	.59	.49	.45	.39
2172877	92	Metal (gold plated) guard	2	.65	.59	.55	.49
25735	120	Metal (chrome) guard	1	.79	.75	.69	.65
695068	120	Metal (black anodized) guard	2	1.09	.99	.89	.79
2172885	120	Metal (gold plated) guard	2	.69	.65	.59	.55

Part No.	mm	Description	Fig.	1	10	50	100
695076	127	Metal (chrome) guard	1	$1.09	$.99	$.89	$.79
1952290	80	Plastic guard only	3	.69	.65	.59	.55
1952661	92	Plastic guard only	3	.79	.75	.69	.65
1952679	120	Plastic guard only	3	.89	.79	.69	.65
1952687	150	Plastic guard only	3	1.29	1.09	.99	.85
1952695	40	Plastic guard w/ mesh	4	1.59	1.49	1.35	1.25
1952708	60	Plastic guard w/ mesh	5	1.65	1.49	1.39	1.29
2158135	80	Plastic guard w/ mesh	4	1.49	1.35	1.19	1.09
138562	80	Plastic guard w/ mesh (clip)	5	1.79	1.69	1.59	1.45
229665	92	Plastic guard w/ mesh	4	1.59	1.45	1.29	1.15
196817	120	Plastic guard w/ mesh	4	2.19	2.09	1.95	1.79
138580	80	Alum. washable filter	6	2.25	1.95	1.79	1.59
130105	120	Alum. washable filter	6	3.49	3.15	2.75	2.49

Fig. 4   Fig. 5   Fig. 6

AC/AC TUBEAXIAL FANS – NEW ARRIVALS

Part No.	Description	Price
2209027	120VAC, 80 x 80 x 38mm 12" leads, 31 CFM	$13.95
2197687	120VAC, 120 x 120 x 38mm 12" leads, 111 CFM	13.95
2205392	120VAC, 120 x 120 x 38mm 12" leads, 80 CFM	11.95
2215700	120VAC, 172 x 150 x 51mm terminals, 210 CFM	29.95

2197687   2215700

Part No.	Description	Price
2151072	120/220VAC, 120 x 120 x 38mm 12" leads, 95/115 CFM	$12.95
2210837	220VAC, 80 x 80 x 38mm 12" leads, 32 CFM	12.95
2133801	220VAC, 120 x 120 x 38mm terminals, 74 CFM	8.95
2205624	220VAC, 172 x 150 x 51mm terminals, 210 CFM	49.95

Fans

COMMONWEALTH™ ADDA

Call for additional OEM PRICING – we carry major manufacturers.

120 & 220VAC Tubeaxial Fans

NEW MARKED IN PINK

★ *Web Code: ABJ*

2209027   212600   2215700   2188676

mm to Inches Conversion Chart

mm	6	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VAC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection	1	10	50	100
213867	Fulltech	UF60D11BWH	120	60 x 60 x 30	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	$17.95	$16.49	$15.95	$14.49
146078	Common Wealth	FP108AX-S1-B	120	80 x 80 x 25	23	Ball	180	14	UL/CE	29	12" leads	15.95	14.49	12.95	11.95
300557	Fulltech	UF80B11SWH	120	80 x 80 x 25	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	13.95	12.95	11.95	10.95
300258	Fulltech	UF80B11BTH	120	80 x 80 x 25	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	14.95	13.95	12.95	11.95
300600	Fulltech	UF80A11BWH	120	80 x 80 x 38	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	15.95	14.49	12.95	11.49
300389	Fulltech	UF80A11BTH	120	80 x 80 x 38	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	15.95	14.49	12.95	11.49
2209027	Sunon	SF11580A-1083HBL.GN	120	80 x 80 x 38	31	Ball	130	12	UL/TUV/CE	35.6	12" leads	13.95	12.95	11.95	10.95
303467	Sunon	SF11592A-1092HBL.GN	120	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	12.95	11.95	10.95	9.95
75460	Sunon	SF11592A-1092HBT-R	120	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	10.95	9.95	8.95	7.95
2131830	Adda	AA1251MB-AT-LF	120	120 x 120 x 25	69.4	Ball	190	19.6	UL/CSA/TUV/CE	38.7	Terminals	9.95	8.95	7.95	6.95
1819376	NMB	4710PS12TB30A00	120	120 x 120 x 25	70.6	Ball	190	11	UL/CSA/VDE/CE	38	Terminals	10.95	9.95	8.95	7.95
1810048	Sunon	SP101AT-1122HBL.GN	120	120 x 120 x 25	78	Ball	180	18	UL/CUL/TUV/CE	46	12" leads	16.95	14.95	13.49	11.95
124063	Sunon	SP101AT-1122HBT	120	120 x 120 x 25	78	Ball	180	18	CSA/TUV/CE	46	Terminals	16.95	14.95	13.49	11.95
303361	Fulltech	UF12A11BTL1	120	120 x 120 x 38	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	14.95	13.49	11.95	10.95
2205392	Adda	AA1281MB-AW	120	120 x 120 x 38	80	Ball	250	15.8	UL/CUL/TUV/CE	40	12" leads	11.95	10.95	9.95	8.95
2205405	Adda	AA1281MB-AT	120	120 x 120 x 38	80	Ball	250	15.8	UL/CUL/TUV/CE	40	12" leads	11.95	10.95	9.95	8.95
106586	Common Wealth	FP108-1-S1/T	120	120 x 120 x 38	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	12.95	11.95	10.95	9.95
2155049	U.S Toyo	TAC12038115HT	120	120 x 120 x 38	105	Ball	180	17	UL/CSA/CE	47	Terminals	8.95	7.95	6.95	5.95
16935	Common Wealth	FP108-1-S1-B/T	120	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	15.95	14.49	12.95	11.49
212600	Fulltech	UF12A11BWH	120	120 x 120 x 38	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.95	14.49	12.95	11.49
1707163	Sunon	SP101A-1123HBL-GN	120	120 x 120 x 38	107	Ball	180	18	UL/CSA/TUV	50	12" leads	15.95	14.49	12.95	11.49
2197441	Orion	OA109AP-11-1WB	120	120 x 120 x 38	110	Ball	220	15	UL/CUL	37	12" leads	12.95	11.95	10.95	9.49
2197687	ThermActive	SAH1238B3A-L	120	120 x 120 x 38	111	Ball	300	24	UL/CUL/CE	44	12" leads	13.95	12.95	11.49	10.95
2125931	Common Wealth	FP108-1	120	120 x 120 x 38	112	Ball	250	19	UL/CUL/TUV/CE	45	Terminals	12.95	11.95	10.95	9.95
102884	Sunon	SP100A-1123XBT	120	120 x 120 x 38	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
2215700	Adda	AA1751HB-AT	120	172 x 150 x 51	210	Ball	430	36	UL/TUV/CE	53	Terminals	29.95	26.95	23.95	19.95
189684	Fulltech	UF15PC11BTH	120	172 x 150 x 51	226	Ball	250	30	CSA	58	Terminals	36.95	34.95	32.95	29.95
212582	Fulltech	UF15PC11BWH	120	172 x 150 x 51	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	36.95	34.95	32.95	29.95
1950956	Arctic	KEST-481BW	120	172 x 150 x 51	260	Ball	620	46	UL/CE/TUV	61	12" leads	38.95	36.95	34.49	31.95
100918	Sunon	SF23080A/2083HSL	220	80 x 80 x 38	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	15.95	13.95	12.49	10.95
355630	Fulltech	UF-80A23-BTH-R	220	80 x 80 x 38	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	16.95	14.95	13.49	11.95
2210837	EG&G Rotron	SU3G1	220	80 x 80 x 38	32	Sleeve	70	10	UL/CSA	39	12" leads	12.95	11.95	10.49	8.95
2133801	Adda	AA1282DB-AT	220	120 x 120 x 38	74.7	Ball	60	8.0	UL/CUL/TUV/CE	39.2	Terminals	8.95	7.95	6.95	6.25
2188676	Comair Rotron	GAA1238-230BB	220	120 x 120 x 38	111	Dual Ball	200	10	UL/CUL/TUV/CE	44	Terminals	13.95	12.95	11.95	10.49
303459	Sunon	DP200A-2123XBL	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.95	13.95	12.95
102892	Sunon	DP200A-2123XBT	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
2151072	Sunon	SF1212ADBL.GN★	120/220	120 x 120 x 38	95/115	Ball	270	21.5	UL/CUL/CE	47	12" leads	12.95	11.95	10.49	8.95
2205624	Adda	AK1752HB-LF(AT)	220	172 x 150 x 51	210	Ball	160	36.8	UL/CUL/TUV/CE	65	Terminals	49.95	44.95	39.95	34.95

★4 wire leads, dual voltage   For case mounting screws, P/Ns 2188481 or 2188490, page 79

DC & AC Plug Fan Power Cords

JAMECO ValuePro

For Fans with Terminal Connection

★ *Web Code: GAE*

Pigtail Fan Cord (A)   **AC Plug Fan Cord (B)**
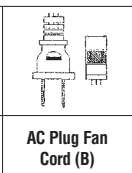
Fig. 1 Straight
Fig. 2 45°
Fig. 3 90°
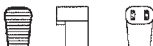
Part No.	Description	Fig.	Length	1	10	100	250
28564	Straight pigtail fan cord	1A	24"	$1.49	$1.25	$.99	$.89
2076658	Straight pigtail fan cord	1A	36"	1.75	1.59	1.45	1.29
1952548	45° pigtail fan cord	2A	24"	1.59	1.35	1.09	.99
104192	90° pigtail fan cord	3A	24"	1.59	1.35	1.09	.99
1952572	Straight AC plug fan cord	1B	72"	3.95	3.59	3.19	2.49
1952581	45° AC plug fan cord	2B	72"	4.95	4.59	3.95	3.49

*For additional products, availability and specifications, visit Jameco.com and enter the Web Code in the product search box.

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

AC-to-AC & AC-to-DC Regulated Switching Wall Adapters

JAMECO ReliaPro — AC-to-AC Wall Adapters
Input: 120VAC @ 60Hz

Female | Male | Female Right Angle | Screw Terminals

★ Web Code: ABQ

UL cUL CSA

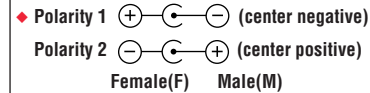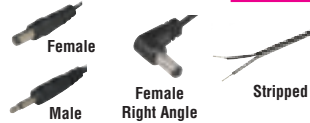2082530   206439

We specialize in Wall Adapters – Call for additional OEM PRICING. We are happy to change any listed AC wall adapter power plug to a connector of your choice (see pg 99) for just $2.50 each. Overmolding also available @ $4.00 each. A 100 pc. minimum order applies.

Part No.	Manufacturer	Product No.	Voltage (VAC)	Current (mA)	Output Connector ID x OD mm Female/Male	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	1	10	50	100
2082521	ReliaPro	5-2634	5	400	1.7mm x 5.5mm right angle **F**	2.0 x 1.4 x 1.3	White	6'	0.4	UL/CSA	$2.95	$2.59	$2.29	$1.95
2082530	ReliaPro	5-2633	5	400	1.7mm x 5.5mm right angle **F**	2.0 x 1.4 x 1.3	Black	6'	0.4	UL/CSA	2.95	2.59	2.25	1.95
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm **F**	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
2202773	Bogen	PI-41-43A	9	780	2.1mm x 5.5mm right angle **F**	2.4 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	8.95	7.95	6.95	5.95
102234	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm **F**	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	6.95
157041	ReliaPro	ACU090100E8942	9	1000	2.5mm x 5.5mm **F**	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	6.95
2167648	OEM	AA091A5	9	1500	2.1mm x 5.5mm **F**	2.4 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	8.95	7.95	6.95	5.95
320258	Ault	T48091500A010G	9	1500	2.5mm x 5.5mm **F**	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.49
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm **F**	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CUL	10.95	9.95	8.95	7.95
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm **F**	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
2179614	ReliaPro	ACU120050R	12	500	2.5mm x 5.5mm **F**	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CUL	8.95	7.95	6.95	5.95
10081	ReliaPro	ACU120100J0920	12	1000	2.1mm x 5.5mm **F**	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	7.29
100167	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm **F**	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	7.29
10428	ReliaPro	ACU120100Z9121	12	1000	3.5mm **M**	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CUL	8.95	7.95	6.95	6.29
2167576	ReliaPro	AM-121200A	12	1200	2.1mm x 5.5mm right angle **F**	3.2 x 2.1 x 1.9	Black	6'	0.9	UL/CSA	8.95	7.95	6.95	6.29
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm **F**	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	11.95	10.95	9.95	8.95
307838	ReliaPro	ADU120160H4120	12	1600	2.5mm x 5.5mm **F**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	12.95	11.95	10.95	9.95
206404	MGElectronics	MGT1220	12	1670	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL	9.95	8.95	7.95	7.29
2197581	ReliaPro	GPU48120200WA00	12	2000	2.1mm x 5.5mm **F**	3.3 x 2.6 x 2.2	Black	6'	1.7	UL/CUL	14.95	13.49	11.95	10.49
2197847	ReliaPro	A71235DC	12	3500	Stripped & tinned **(Table-Top style)**	3.9 x 2.7 x 2.2	Black	6'	2.1	UL/CSA	11.95	10.95	9.95	8.95
2138978	ReliaPro	JOD-48U-12A	13.5	1000	1.3mm x 3.5mm **F**	2.8 x 2.2 x 1.9	Black	6'	0.6	UL/CUL	7.95	6.95	5.95	4.95
2202765	ReliaPro	240000000043	13.5	1000	2.1mm x 5.5mm **F**	2.8 x 2.2 x 1.8	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	7.29
171408	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm **F**	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	6.25
318684	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle **F**	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	11.95	10.95	9.95	8.95
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm **F**	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	11.95	10.95	9.95	8.95
2217748	ReliaPro	ZMCE-014	18	300	Stripped/tinned	2.3 x 1.6 x 1.4	Black	6'	0.5	UL/CUL	6.95	5.95	4.95	4.49
2082142	Ault	308-2018	18	900	Screw terminals	1.9 x 2.2 x 2.0	Beige	—	0.7	UL	4.95	4.49	3.95	3.59
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm **F**	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	11.95	10.95	9.95	8.95
2179622	ReliaPro	AFU180200	18	2000	2.1mm x 5.5mm **F**	3.4 x 2.7 x 2.1	Black	6'	1.7	—	12.95	11.95	10.95	9.95
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm **F**	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
206439	MGElectronics	MGT2420	24	830	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL	10.95	9.95	8.95	7.95
140599	ReliaPro	ADU240100D5531	24	1000	2.1mm x 5.5mm **F**	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CUL	11.95	10.95	9.95	8.95
2217721	ReliaPro	ZMCE-022	24	1000	2.5mm x 5.5mm **F**	3.2 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	6.95
10102	ReliaPro	ADU240100E0461	24	1000	3.5mm **M**	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CUL	11.95	10.95	9.95	8.95
2100195	ReliaPro	GPU572401500WA00	24	1500	2.1mm x 5.5mm **F**	3.3 x 2.6 x 2.3	Black	6'	1.7	UL/CUL	14.95	13.49	11.95	10.95
2197548	ReliaPro	GPU572402000WA00	24	2000	2.1mm x 5.5mm **F**	3.3 x 2.6 x 2.2	Black	6'	1.7	UL/CUL	17.95	15.95	13.49	11.95
2205579	MG Electronics	MGT2450P	24	2100	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CUL	15.95	14.95	13.49	11.95

MW — AC-to-DC Regulated Switching Wall Adapters

UL cUL CSA CE cec

★ Web Code: CDZ

Polarity 1 ⊕—●—⊖ (center negative)
Polarity 2 ⊖—●—⊕ (center positive)
Female(F)   Male(M)

Female Straight | Female Right Angle | 2158549

We specialize in Wall Adapters – Call for additional OEM PRICING.
We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 99) for just $2.50 each. A 100 pc. minimum order applies. Overmolding also available @ $4.00 each. A 100 pc. minimum order applies.

Part No.	Manufacturer	Product No.	Volt. (VDC)	Current (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	1	10	50
2138636	Emerson	SW013US-0500020US*	5	200	USB F	100-240@50-60	—	Black	—	—	TUV/FCC	$3.95	$3.59	$3.19
2217730	ReliaPro	ZMCE-039*	5	1000	Stripped/tinned F 2	100-240@50-60	2.3 x 1.3 x 1.0	Black	6'	0.2	UL/CUL/CEC	6.95	6.25	5.95
252720	Phihong	PLA05A-050*	5	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.1 x 1.7	Black	6'	0.3	UL/CUL	9.95	8.95	7.95
2201957	Deer Computer	AD1505C	5	1000	2.5mm x 5.5mm F 2	100-240@47-63	2.8 x 1.4 x 2.1	Black	6'	0.3	UL/CUL/CE	7.95	6.95	6.25
2196318	Mean Well	GSM06U05-P1J	5	1200	2.1mm x 5.5mm F 2	85-264@47-63	1.3 x 2.6 x 1.7	Black	4'	0.2	CUL/CE/CB/FC	9.95	8.95	8.49
2202811	Phihong	PSC11A050	5	2000	1.3mm x 3.5mm F 2	100-240@50-60	2.8 x 1.7 x 1.3	White	6'	0.4	UL/CUL	9.95	8.95	7.95
2209158	Cui Inc	EPAS-101W-05*	5	2000	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.7 x 1.0	Black	6'	0.3	UL/CUL	8.95	7.95	6.95
1940740	Mean Well ⏚	GS12U05P1I	5	2000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	4'	0.3	UL/CUL/CEC	10.49	8.95	8.49
2138741	ReliaPro	CP0520	5	2000	2.5mm x 5.5mm F 1	100-240@47-63	3.0 x 1.1 x 1.6	Black	6'	0.4	UL/CUL/TUV	9.95	8.95	7.95
2188537	Cui Inc	EPAS-101W-05	5	2000	2.5mm x 5.5mm right angle F 2	100-240@50-60	2.4 x 1.7 x 1.0	Black	6'	0.3	UL/CUL	8.95	7.95	6.95
2138724	Jentec ⏚	AF1805A*	5	2500	2.1mm x 5.5mm right angle F 2	100-120@50-60	2.4 x 1.9 x 1.1	Black	6'	0.3	UL/CUL/CEC	9.95	8.95	7.95
2158549	ReliaPro ⏚	S15AA05025001*	5	2500	2.5mm x 5.5mm right angle F 2	100-240@50-60	3.0 x 2.2 x 1.3	Black	6'	0.3	UL/CUL/CEC	8.95	7.95	—
1952863	Mean Well ⏚	GS18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	11.95	10.95	9.95
2167664	Fairway	WN20U-050	5	3000	2.5mm x 5.5mm F 2	100-240@50-60	2.9 x 2.0 x 1.6	Black	6'	0.4	UL/CUL	9.95	8.95	7.95
2135451	CUI Inc	EPS050400H-P5RP-FI*	5	4000	2.1mm x 5.5mm right angle F 2	90-132@47-63	3.3 x 2.0 x 1.5	Black	6'	0.4	UL/CUL/CEC	9.95	8.95	7.95
379623	Mean Well ⏚	GS25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	11.95	10.95	9.95
2172931	ReliaPro*	EA1006BU*	9	660	2.1mm x 5.5mm F 1	100-240@50-60	2.1 x 1.4 x 1.0	Black	6'	0.1	UL/FCC/CEC	10.95	9.95	8.95

†RFI filter on cord   *Slimline   ⏚ CEC

AC-to-DC Regulated Switching Wall Adapters (Continued)

★ Web Code: CDZ

Part No.	Manufacturer	Product No.	Output Rating Volt. (VDC)	Output Rating Current (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50
1940766	Mean Well	GS12U09-P1I	9	1330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	$10.49	$8.95	$8.49
2179585	ReliaPro	ADS-18C-12†*	9	2000	2.1mm x 5.5mm right angle F 2	100-240@50-60	2.8 x 2.0 x 1.3	Black	6'	0.4	UL/CUL/CEC	9.49	8.49	—
1952847	Mean Well	GS18U09-P1J	9	2000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.95	10.95	9.95
380140	Mean Well	GS25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.95	10.95	9.95
2173124	ReliaPro	EA1030U†	9	3000	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 1.7 x 1.2	Black	6'	0.5	UL/CUL/CEC	14.95	13.49	11.95
2121578	MG Electronics	ST-12500	12	500	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	8.95	7.95	7.49
2151101	ReliaPro	CNR2260	12	500	2.1mm x 5.5mm F 2	100-240@50-60	3.6 x 2.0 x 1.3	Black	6'	0.3	UL/CUL/CEC	6.95	5.95	4.95
2197468	ReliaPro	S120S100B6*	12	1000	2.1mm x 5.5mm right angle F 2	100-240@50-60	2.9 x 1.8 x 1.2	Black	6'	0.3	UL/CUL/CEC	8.95	7.95	6.95
2215734	ReliaPro	MT12-Y120100-A1*	12	1000	2.1mm x 5.5mm F 2	100-120@50-60	2.7 x 1.5 x 1.3	Black	6'	0.2	UL/CUL/CEC	8.95	7.95	6.95
2215742	ReliaPro	T012LF1209*	12	1000	2.1mm x 5.5mm F 2	100-120@50-60	3.0 x 1.6 x 1.4	Black	6'	0.2	UL/CUL/CEC	8.95	7.95	6.95
1940774	Mean Well	GS12U12-P1I	12	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	10.49	8.95	8.49
2121586	MG Electronics	ST-121A	12	1000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	11.95	10.95	9.95
2179593	ReliaPro	ADS18C-121218†*	12	1500	2.1mm x 5.5mm right angle F 2	100-240@50-60	2.8 x 2.0 x 1.3	Black	6'	0.4	UL/CUL/CEC	10.95	9.95	8.95
2209262	Asian Power Devices	WA-18G12U	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.3	Black	4'	0.3	UL/CUL/CEC	10.95	9.95	8.95
1952855	Mean Well	GS18U12-P1J	12	1500	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.2	UL/CUL/CEC	11.95	10.95	10.49
2209166	ReliaPro	GIP-650†	12	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.4	UL/CUL	11.95	10.49	8.95
2082134	MG Electronics	ST-122A	12	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.4	UL/CUL/CEC	14.95	13.49	11.95
380156	Mean Well	GS25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	11.95	10.95	10.49
2173984	Mean Well	GS36U12-P1J	12	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	3'	0.5	UL/CUL/BSMI/CB/FCC	13.95	12.95	11.95
2173116	ReliaPro	EA1036U†	12	3000	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 1.7 x 1.2	Black	6'	0.6	UL/CUL/CEC	17.95	16.95	15.49
1940782	Mean Well	GS12U15-P1	15	800	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	10.49	8.95	8.49
1952871	Mean Well	GS18U15-P1J	15	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.4	Black	6'	0.4	UL/CUL/CEC	11.95	10.95	10.49
380173	Mean Well	GS25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	11.95	10.95	10.49
2173108	ReliaPro	EA1030CU†	15	2000	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 1.7 x 1.2	Black	6'	0.6	UL/CUL/CEC	14.95	13.95	12.49
380191	Mean Well	GS25U18-P1J	18	1380	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.95	10.95	10.49
1940803	Mean Well	GS12U24-P1I	24	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	10.95	9.95	8.95
1952898	Mean Well	GS18U24-PIJ	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.95	10.95	10.49
2121594	MG Electronics	ST-241A	24	1000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	12.95	11.95	10.95
1953698	ReliaPro	MPC2400107	24	1000	2.1mm x 5.5mm F 2	100-240@50-60	3.4 x 2.7 x 2.2	Black	6'	0.5	UL/CSA	10.95	9.95	9.49
1953671	ReliaPro	MPC-2400107	24	1000	2.5mm x 5.5mm F 2	120-240@50-60	3.4 x 2.7 x 2.2	Black	6'	0.5	UL/CSA	14.95	13.49	11.95
380202	Mean Well	GS25U24-P1J	24	1040	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.95	10.95	10.49
2173095	ReliaPro	EA1030DU†	24	1250	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 1.7 x 1.2	Black	6'	0.6	UL/CUL/CEC	12.95	11.95	11.49
2173992	Mean Well	GS36U24-P1J	24	1500	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	3'	0.5	UL/CUL/BSMI/CB/FCC	13.95	12.95	11.95
2167613	MG Electronics	ST-242A	24	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	6'	0.3	—	15.95	14.95	13.95
380220	Mean Well	GS25U28-P1J	28	890	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.6	UL/CUL/CEC	11.95	10.95	10.49
2179391	ReliaPro	PA1024-360HU	36	670	2.5mm x 5.5mm F 2	90-264@47-63	2.7 x 1.8 x 1.3	Black	6'	0.3	UL/CUL/CEC	12.95	11.95	11.49
380244	Mean Well	GS25U48-P1J	48	520	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.95	10.95	10.49

† RFI filter on cord   * Slimline   ☙ CEC

AC-to-DC "Slim Line" Regulated Switching Wall Adapters

★ Web Code: CBQ

Output connector: 2.1mm x 5.5mm F2 (center positive)
• 2-wire AC input   • Output cord length: 6'   • Color: black   • Input volt.: 100 – 240VAC @ 47-63Hz   • One-year warranty

Part No.	Manufacturer	Output Rating Volt (VDC)	Output Rating Curr. (mA)	Size (in.) (H x W x D)	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 50	Pricing 100
251565	ReliaPro	3.3	1500	2.5x1.1x1.7	0.2	$10.95	$9.95	$8.95	$7.49
251600	ReliaPro	3.3	2500	2.9x1.1x1.7	0.3	11.95	10.95	9.95	8.49
2173010	Phihong	5	400	1.9x1.4x0.9	0.1	5.95	4.95	4.49	3.95
252701	ReliaPro	5	500	2.9x1.1x1.7	0.3	10.95	9.95	8.95	7.95
2126125	OEM	5	800	1.9x1.6x0.9	0.1	6.95	5.95	5.49	4.95
252720	ReliaPro	5	1000	2.5x1.1x1.7	0.2	9.95	8.95	7.95	7.19
2211098	Phihong	5	1000	2.6x1.4x1.1	0.2	10.95	9.95	8.95	7.95
1940660	Mean Well	5	1000	2.6x1.3x1.9	0.2	11.95	10.95	9.95	8.95
252728	ReliaPro	5	1500	2.5x1.1x1.7	0.2	8.49	7.49	—	—
210894	ReliaPro	5	2000	2.9x1.4x2.2	0.2	8.95	7.95	—	—
252736	ReliaPro	5	2500	2.9x1.3x2.2	0.3	8.95	7.95	—	—
2082222	ReliaPro	5	3000	2.9x1.3x2.2	0.3	9.95	8.95	7.95	6.95
2145078	ReliaPro	6	500	2.5x1.7x1.1	0.3	9.95	8.95	7.95	6.95
1940678	Mean Well	7.5	800	2.6x1.3x1.9	0.2	9.49	8.49	7.95	7.49
252753	ReliaPro	9	500	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95
1940686	Mean Well	9	660	2.6x1.3x1.9	0.2	9.49	8.49	7.95	7.49
1950841	ReliaPro	9	1000	2.5x1.1x1.7	0.2	8.95	7.95	—	—
252779	ReliaPro	9	1200	2.9x1.3x2.2	0.3	$8.95	$7.95	—	—
252786	ReliaPro	9	1500	2.9x1.3x2.2	0.3	8.95	7.95	—	—
2173132	ReliaPro	9	2000	2.8x2.0x1.3	0.3	16.95	15.49	13.95	11.49
252795	ReliaPro	12	250	2.5x1.1x1.7	0.2	8.95	7.95	6.95	6.25
2150758	ReliaPro	12	500	2.5x1.7x1.1	0.2	7.95	6.95	6.25	5.95
252808	ReliaPro	12	500	2.5x1.1x1.7	0.2	8.95	7.95	6.95	6.25
1940694	Mean Well	12	500	2.6x1.3x1.9	0.2	10.95	9.95	8.95	7.95
252816	ReliaPro	12	600	2.5x1.1x1.7	0.2	8.49	7.49	—	—
252824	ReliaPro	12	1000	2.9x1.3x2.2	0.3	12.95	11.95	9.95	8.95
252833	ReliaPro	12	1250	2.9x1.3x2.2	0.3	13.95	12.95	11.95	10.95
1950497	ReliaPro	12	2000	2.9x2.1x1.3	0.4	15.95	14.49	12.95	11.49
2215726	ReliaPro	12	2500	3.0x1.4x2.0	0.3	13.95	12.95	11.49	9.95
254757	ReliaPro	15	800	2.9x1.3x2.2	0.2	12.95	11.49	10.49	9.49
252904	ReliaPro	15	1000	2.9x1.3x2.2	0.3	13.95	12.95	11.95	10.95
252866	ReliaPro	24	500	2.9x1.3x2.2	0.3	12.95	11.95	10.95	9.95
2076341	ReliaPro	24	630	2.9x1.3x2.2	0.3	12.95	11.95	10.95	9.95

☙ CEC

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Energy Star Worldwide Interchangeable AC-to-DC Regulated Switching Wall Adapters

PHIHONG | MW | JAMECO | ReliaPro

Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

c UL us / CE ★ **Web Code: NBH**

- Field changeable AC plug clips **(sold separately, unless noted)**
- Regulated output • Double insulated
- Input voltage: 90-264VAC @ 47-63Hz • Power-on LED
- Output connector: **2.1mm x 5.5mm female center positive;** (except where noted, see footnotes ******, **#**, **✓**, **##** below)
- Load regulation: ±5% • Class B EMI • 6' black cord
- Applications: wireless communications, portable equipment, digital camera, peripherals and networking

NEW MARKED IN PINK

229181

Shown w/o AC Plug Clip AC Plug Clips Not Included

USA	European (EU)	UK	Australia (AUS)
229155	229163	229171	2081422

Phihong & Mean Well AC Plug Clips (below)

Part No.	Manufacturer	Product No.	Output Volt. (VDC)	Current (A)	Power (W)	Ripple (mVp-p)	Line Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing 1	Pricing 10	Pricing 50
228785	Phihong	PSA11R-033	3.3	2.0	6	50	±5%	70	3.3 x 1.8 x 1.3	$10.95	$9.95	$8.95
2202888	Phihong	PSA21R-033	3.3	3.0	10	50	±1%	70	3.9 x 2.3 x 1.2	12.95	11.95	10.95
2144809	Phihong	PSA08R-050†#	5	1.0	5	50	±1%	70	2.8 x 1.8 x 1.0	8.95	7.95	6.95
2202829	Phihong	PSA08R-050-1.3**	5	1.0	5	50	±1%	70	2.8 x 1.8 x 1.0	9.95	8.95	7.95
2202790	Cincon	TR10R050-1*	5	1.6	8	50	±1%	65	2.8 x 1.7 x 1.3	11.95	10.95	9.95
2197812	Cincon	TR1ORO50 ✓*	5	1.6	8	50	±1%	65	2.8 x 1.7 x 1.3	11.95	10.95	9.95
2158240	Phihong	PSM11R-050##	5	2.0	10	100	±5%	70	2.8 x 1.7 x 1.2	9.95	8.95	7.95
2202853	Phihong	PSA10R-090	9	1.1	10	90	±1%	65	3.4 x 2.0 x 1.3	10.95	9.95	8.95
2202896	Phihong	PSA21R-090	9	1.67	15	90	±1%	70	3.9 x 2.3 x 1.2	11.95	10.95	9.95
2082311	Mean Well	GE18I09-P1J	9	2.0	18	100	±5%	75	3.2 x 1.7 x 1.6	12.49	11.49	9.95
2138951	Phihong	PSA11R-120	12	0.83	10	120	±1%	65	2.8 x 1.8 x 1.2	9.95	8.95	7.95
2108656	Phihong	PSC12R-120	12	1.0	12	240	±5%	78	2.8 x 1.8 x 1.2	14.95	13.95	12.95
2154986	ReliaPro	FW75550/12*	12	1.25	15	150	±5%	80	3.5 x 2.0 x 1.3	15.95	14.95	13.95
2210693	Asian Power Devices	WA-18H12§	12	1.5	18	120	±2%	80	3.0 x 1.9 x 1.4	14.95	13.95	12.95
228849	Phihong	PSA21R-120	12	1.67	20	120	±1%	70	3.9 x 2.3 x 1.2	16.95	14.95	13.49
2100179	Phihong	PSAA20R-120	12	1.67	20	120	±5%	81	2.8 x 2.0 x 1.3	17.95	16.95	14.49
2102094	Mean Well	GE24I12-P1J	12	2.0	24	120	±1%	78	3.2 x 1.7 x 1.6	14.95	13.49	11.95
228822	Phihong	PSA11R-150	15	.67	10	150	±5%	70	3.4 x 2.0 x 1.3	16.95	14.95	13.49
2205632	CUI	EMS240025-PSP-SZ*	24	0.25	6	240	±1%	80	2.5 x 1.6 x 1.2	8.95	7.95	6.95
2082345	Mean Well	GE12I24-P1J	24	0.63	15	240	±3%	80	2.8 x 1.6 x 1.5	9.49	8.49	7.95
2192528	Edac	EA1024KR*	24	1.25	30	240	±1%	80	2.8 x 1.6 x 1.3	24.95	22.95	19.95

Input plugs: †Includes US AC plug clip only §Includes US and European plug clips *Kit includes US, UK, EU, AUS plugs
Output connectors: **1.3mm x 3.5mm female plug #2.5mm x 5.5mm female plug ✓2.5mm x 5.5mm right angle female plug ##Mini USB plug

Phihong AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
229155	RPA	US AC plug only	$1.25	$1.19	$1.09	$.99
229163	RPE	European AC plug only	1.25	1.19	1.09	.99
229171	RPK	United Kingdom AC plug only	1.49	1.35	1.19	1.09
2081422	RPS	Australia AC plug only	1.25	1.19	1.09	.99
229181	RPKIT	Kit includes US, EU, UK & AU clips (4)	4.79	4.39	3.95	3.49

Mean Well AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
2082353	AC-Plug-US	US AC plug only	$1.19	$1.09	$.99	$.89
2082361	AC-Plug-EU	European AC plug only	1.19	1.09	.99	.89
2082370	AC-Plug-UK	United Kingdom AC plug only	1.39	1.25	1.09	.99
2082388	AC-Plug-AU	Australia AC plug only	1.19	1.09	.99	.89
2082396	AC-Plug-MIX	Kit includes US, EU, UK & AU clips (4)	4.59	4.19	3.79	3.39

AC-to-DC Regulated Linear Wall Adapters

JAMECO | ReliaPro

UL cUL CSA ★ **Web Code: WAZ**

We specialize in Wall Adapters – Call for additional OEM PRICING.

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 99) for just $2.50 each. Overmolding also available @ $4.00 each. A 100 pc. minimum order applies.

1953639 Female Female Right Angle

◆ Polarity 1 (center negative)
Polarity 2 (center positive)
Female(F) Male(M)

Part No.	Manufacturer	Product No.	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	Pricing 10	Pricing 50	Pricing 100
164101	ReliaPro	GPU410500500WD00	5	500	2.1mm x 5.5mm F 2	120 @ 60	3.1 x 2.1 x 1.7	Black	6'	0.6	UL/CUL	$10.95	$9.95	$8.95	$7.95
319986	ReliaPro	DV-580R	5	800	2.5mm x 5.5mm F 2	120 @ 60	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	7.49	6.49	5.49	4.49
1953612	ReliaPro	DDU050100	5	1000	2.1mm x 5.5mm F 2	120 @ 60	3.2 x 2.2 x 1.8	Black	6'	1.2	UL/CUL	10.95	9.95	8.95	7.95
168605	ReliaPro	DBU0501000	5	1000	2.5mm x 5.5mm F 2	120 @ 60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CUL	10.95	9.95	8.95	7.95
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120 @ 60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.95	8.95	7.95	6.95
283573	ReliaPro	ADR-6V500MA-2.1	6	500	2.1mm x 5.5mm F 2	120 @ 60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	10.95	8.95	8.95	7.95
190529	ReliaPro	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120 @ 60	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
1953639	ReliaPro	DCU09050	9	500	2.1mm x 5.5mm F 2	120 @ 60	2.4 x 2.0 x 1.6	Black	6'	0.9	UL/CUL	10.95	10.49	9.95	8.95
1953647	ReliaPro	SF41-0900500RU	9	500	2.5mm x 5.5mm F 2	120 @ 60	3.0 x 2.0 x 1.6	Black	6'	0.9	UL/CUL	10.95	10.49	9.95	8.95
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120 @ 60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	8.95	7.95	6.95	6.25
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120 @ 60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	11.95	10.95	9.95	8.95
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120 @ 60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
1953663	ReliaPro	DCU1201000	12	1000	2.5mm x 5.5mm F 2	120 @ 60	3.3 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120 @ 60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.95	13.49	11.95	10.95
174879	ReliaPro	DCU090025	24	500	2.5mm x 5.5mm F 2	120 @ 60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.95	13.49	11.95	10.95

Power

AC-to-DC Unregulated Linear Wall Adapters

JAMECO ReliaPro

NEW MARKED IN PINK

★ *Web Code: UAP*

Input: 120VAC @ 60Hz

We specialize in Wall Adapters – Call for additional OEM PRICING.

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 99) for just $2.50 each. Overmolding also available @ $4.00 each. A 100 pc. minimum order applies.

Female
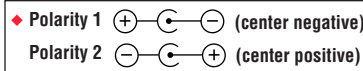**Male**
Female Right Angle
Stripped

◆ Polarity 1 (+)—●—(−) (center negative)
◆ Polarity 2 (−)—●—(+) (center positive)
Female(F)   Male(M)

2099921

Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070	ReliaPro	DBU050022Z5480	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CUL	$5.95	$5.49	$4.95	$4.49
2179745	DVE	DV-6100-3508	6	100	2.1mm x 5.5mm F 1	2.4 x 1.5 x 1.0	Black	6'	0.3	UL/CUL	3.95	3.49	2.95	2.49
2099551	Fuhue	UE-3560300D	6	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.49	4.95	4.49
2138716	ReliaPro	D41-06-500R	6	500	2.1mm x 5.5mm F 1	2.6 x 2.0 x 1.5	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.49
101266	ReliaPro	DBU060050E3860	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CUL	6.95	6.25	5.59	4.95
147707	ReliaPro	DBU060080C6962	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
220943	ReliaPro	DCU060120G2401	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	6.95
2215460	Fujitsu	MA14L-2001-0012	9	200	1.3mm x 3.5mm right angle F 2	2.4 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	4.95	4.59	3.95
134025	ReliaPro	DBU090020Z6100	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
2100152	ReliaPro	AP2911	9	200	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.49	2.95	2.59
100845	ReliaPro	DBU090020E0850	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	5.49	4.59
2082556	ReliaPro	5-2616	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Black	6'	0.5	UL/CUL	2.95	2.59	2.29	1.95
2082548	Atlinks	5-2617	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Gray	6'	0.5	UL/CUL	3.95	3.59	3.29	2.95
2138847	ReliaPro	D6300-01	9	200	2.5mm M 2	2.2 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.49	2.95	2.59
133891	ReliaPro	DBU090030C112	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	5.49	4.95
318676	ReliaPro	DBU090030H5790	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	5.49	4.95
189238	ReliaPro	DBU090030H4540	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	4.95	4.49
163628	ReliaPro	DCU090050Z7484	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.49
100853	ReliaPro	DCU090050E2961	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.49
236937	ReliaPro	DCU090050G6440	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CUL	7.95	6.95	6.25	5.49
15561	ReliaPro	DCU090050A2011	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	7.95	6.95	6.25	5.49
202180	ReliaPro	DCU090060F2091	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.95	6.95	5.95	5.49
100175	ReliaPro	DCU090060Z6652	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	5.95	5.49
2192704	ReliaPro	TEAD-41-090800U	9	800	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.7	UL/CUL	7.95	6.95	5.95	4.95
164929	ReliaPro	DDU090100C2550	9	1000	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
2179542	ReliaPro	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	6.95	5.95	5.49
421690	AULT	P48091000A010G	9	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	6.95	6.25
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
2099921	ENG Electric	T48-9-1000D4 ★	9	1000	2.5mm x 5.5mm F 1 (UK plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	CE/TUV	2.49	1.95	1.59	1.19
127505	ReliaPro	DDU090100	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
130526	ReliaPro	DDE090120F3621	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	6.95
100095	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.49	4.95	4.49
158043	ReliaPro	DBU120020E2261	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.49	4.95	4.49
2167226	ReliaPro	4292A	12	200	2.5mm x 5.5mm F 2	2.3 x 2.1 x 1.6	Black	6'	0.5	UL/CSA	5.49	4.95	4.49	3.95
127976	ReliaPro	DCU120030D7161	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CUL	7.95	6.95	5.95	4.95
114825	ReliaPro	DCU120050D4740	12	500	Stripped & tinned	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.59	5.95
15368	ReliaPro	DCU120050Z8698	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CUL	7.95	6.95	6.59	5.95
102496	ReliaPro	DCU120050E8601	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
102277	ReliaPro	DCU120050UE2631	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
17267	ReliaPro	DCU120050Z5391	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CUL	6.95	5.95	5.49	4.95
2167365	ReliaPro	A31265	12	600	2.1mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.6	Black	6'	0.7	UL/CSA	6.95	6.49	5.95	5.49
202219	ReliaPro	DCU120070F2142	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	7.29	6.49
2188473	Motorola ⌔	503913-007	12	750	2.5mm x 5.5mm F 2	2.7 x 1.7 x 1.2	Black	6'	0.2	UL/CUL/CEC	7.49	6.95	6.25	5.49
117479	ReliaPro	DDU120080E6451	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.49	6.95
2217799	ReliaPro	AD-1280G†	12	800	2.5mm x 5.5mm F 2 (medical grade)	3.2 x 2.2 x 1.9	Black	12'	1.3	UL/CUL	7.95	6.95	6.25	5.95
129331	ReliaPro	DDU120080F2412	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.49	6.95
121232	ReliaPro	DDU120080F2271	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.49	6.95
2202917	Nite Rider	D12-10-1000	12	1000	2.1mm x 5.5mm F 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	7.95	6.95	6.25	5.59
2197484	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	6.25
100870	ReliaPro	DDU120100Z7974	12	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	7.29
2211135	Fellows	A-48-628(R2)	12	1000	2.5mm x 5.5mm right angle F 2	3.1 x 2.2 x 1.9	Black	6'	1.1	UL/CUL	7.95	6.95	6.25	5.59
2179770	Westell ⌔	585-200071 ★★	12	1000	2.5mm x 5.5mm F 2	2.9 x 1.6 x 1.2	Black	6'	0.2	UL/CEC	7.95	6.95	6.25	5.59
105478	ReliaPro	DDU120100Z2993	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
15392	ReliaPro	DDU120100E7302	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29

★ 240VAC 50Hz   ★★ Slimline   † 3 prong ground   ⌔ CEC

More AC-to-DC Wall Adapters listed on pages 90-92 & 94

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Power

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JAMECO **ReliaPro**

AC-to-DC Unregulated Linear Wall Adapters (Continued)

★ *Web Code: UAP*

Input: 120VAC @ 60Hz

We specialize in Wall Adapters – Call for additional OEM PRICING.
We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 99) for just $2.50 each. Overmolding also available @ $4.00 each. A 100 pc. minimum order applies.

Female **Male** **Female Right Angle**

◆ Polarity 1 (+)—•—(−) (center negative)
Polarity 2 (−)—•—(+) (center positive)
Female(F) Male(M)

123158

Part No.	Manufacturer	Product No.	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50	100
196779	ReliaPro	DDU120120G0031	12	1200	2.5mm x 5.5mm F **2**	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	$10.95	$9.95	$8.95	$7.95
2192747	ReliaPro	MW48-1201250	12	1250	2.1mm x 5.5mm F **2**	3.0 x 2.3 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	6.95
203036	ReliaPro	DDU120150H4530	12	1500	2.1mm x 5.5mm F **1**	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	15.95	14.95	13.49	11.95
136881	ReliaPro	DDU120150K1960	12	1500	2.1mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	15.95	14.95	13.49	11.95
101291	ReliaPro	DDU120150	12	1500	2.5mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	15.95	14.95	13.49	11.95
2173028	ENG	57-12-2000D	12	2000	2.1mm x 5.5mm F **2**	3.4 x 2.6 x 2.2	Black	6'	1.7	UL/CUL	12.95	11.95	10.49	8.95
308099	ReliaPro	DDU135100H3210	13.5	1000	2.1mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
123932	ReliaPro	DDU140070Z7470	14	700	2.1mm x 5.5mm F **2**	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	8.95	7.95	6.95	6.25
2172720	Globtek	WD1G500CCP-N	15	500	2.1mm x 5.5mm F **2**	3.2 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	6.95	5.95	5.49	4.95
190001	ReliaPro	DCU150050E3021	15	500	2.1mm x 5.5mm F **2**	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CUL	7.95	6.95	6.25	5.95
189982	ReliaPro	DCU150050E3031	15	500	2.5mm x 5.5mm F **2**	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CUL	8.95	7.95	7.29	6.49
191652	ReliaPro	DDU150100D7051	15	1000	2.1mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
2167525	ReliaPro	DDU150100RR2200	15	1000	2.5mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	8.95	7.95	6.95	6.25
217541	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F **2**	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	2.49	1.95	1.59	1.25
2081713	DVE	DV-1790	17	900	2.5mm x 2.2 x 2.0 ...	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	2.49	1.95	1.59	1.25
2205261	ReliaPro	DDU180100H4550	18	1000	2.1mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.95	8.95	7.95
206958	ReliaPro	DDU180100H4551	18	1000	2.5mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.95	8.95	7.95
102285	ReliaPro	DDU240040Z7860	24	400	2.1mm x 5.5mm F **2**	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.29	6.49
163635	ReliaPro	DDU240050C1981	24	500	2.1mm x 5.5mm F **1**	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	7.95	6.95	5.95	5.49
2192510	ReliaPro	DDU240050RS1160	24	500	2.1mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
191556	ReliaPro	DDU240050E5852	24	500	2.5mm x 5.5mm F **2**	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
139088	ReliaPro	DDU240050E9160	24	500	3.5mm M **2**	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
2192641	Ault	P48240600A030G	24	600	2.1mm x 5.5mm F **2**	2.9 x 2.2 x 1.9	Black	6'	1.3	UL/CSA	7.95	6.95	5.95	4.95
168495	ReliaPro	DFU240080J3180	24	800	2.1mm x 5.5mm F **2**	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	11.95	10.95	9.95	8.95
220960	ReliaPro	DFU240100G2300	24	1000	2.1mm x 5.5mm F **1**	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	14.95	13.49	11.95	9.95
249121	ReliaPro	DFU240120/G8520	24	1150	2.1mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.95	15.95	14.49	12.95
249113	ReliaPro	DFU240120/G8510	24	1150	2.5mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	13.95	11.49	10.95
199523	ReliaPro	DDU300050E9340	30	500	2.5mm x 5.5mm F **2**	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.95	8.95	7.95
2167621	Seven Star	SS104*	1.5, 3, 4.5, 6, 7.5, 9, 12	500	0.7x2.3, 1.5x4, 2.1x5, 2.5x5.5 **Female** 2.5, 3.5 **Male** (LED indicator)	3.3 x 2.0 x 1.9	Black	6'	0.8	—	5.95	4.95	3.95	3.49
123158	ReliaPro	900-100*	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3x3.5, 2.1x5, 2.5x5.5 **Female** 2.5, 3.5 **Male**, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	11.95	10.95	9.95	8.95

*110/220VAC input voltage

GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

★ *Web Code: WBM*

- **2.5mm x 5.5mm female center positive**
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5%
- Isolation voltage: 4,000VAC
- 3-wire AC input
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 132011, pg 103
- Size: 2.9"L x 2.0"W x 1.6"H

Part No.	Mfr. Part No.	Power (W)	Output VDC/Amps	Pricing 1	10	50
2179606	TR9CB2500LCP	15.0	+6/2.5	$19.95	$17.95	$15.95
230683	TR9CE1250CP	15.6	+12/1.3	34.95	29.95	24.95
230763	TR9CE4000LCP	49.2	+12/4.1	49.95	44.95	39.95
230798	TR9CI2100LCP	50.4	+24/2.1	59.95	53.95	47.95

★ *Interchangeable Power Supplies, Adapters and Tips — Enter Web Code NBH*

Accessory Power Input Cords for Table-Top Power Supplies

★ *Web Code: UBF*

189587 38050 1951123

Part No.	Ref. No.*	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
189587	1	2-conductor power cord (Figure 8 style)	Black	18/2	UL/CSA	6'	0.3	SPT	$2.95	$2.69	$2.39	$2.19
38050	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	4.95	4.49	3.95	3.59
1953559	3	3-conductor flat power cord (Mickey Mouse™ style)**	Black	18/3	UL/CSA	6'	0.4	SPT-2	2.59	2.25	1.95	1.59
1951123	3	3-conductor round power cord (Mickey Mouse™ style)**	Black	18/3	UL/CSA	6'	0.4	SVT	2.95	2.59	2.29	1.95

*These reference numbers for "AC cord needed" for Table-Top Power Supplies on pages 95-97 **Ref #3 chose flat or round cable *More Power Cords on page 103*

Jameco carries the full line of Mean Well Power products. For additional products visit www.Jameco.com/meanwellproducts

JAMECO ReliaPro | MW | PHIHONG **AC-to-DC Unregulated Linear & Regulated Switching Table-Top Power Supplies**

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 99) for just $2.50 ea. Overmolding also available @ $4.00 ea. A 100 pc. minimum order applies.

2155006   2099569   1940299   2155321   **NEW MARKED IN PINK** cec   309876

◆ Polarity 1 (+)—(c)—(−) (center negative)
Polarity 2 (−)—(c)—(+) (center positive)

Female (F)   Male (M)   DIN (M)   Stripped

UL CSA (A) GS CE

See page 102 for International Power Cords

Part No.	Manufacturer	Product No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity ◆	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	Pricing 10
2-Wire AC Input – Unregulated Linear Table-Top													★ Web Code: TBE	
2155006	Lite-On	PB-1090-1L1	+12/0.75	2.5mm x 5.5mm F 2	120@60	9	No	3.2 x 2.2 x 1.9	6'/6'	1.1	UL/CUL	$6.95	$5.95
2192712	OEM	AD-121ADT	+12/1.0	2.1mm x 5.5mm F 2	120@60	12	No	3.2 x 2.2 x 1.8	6'/6'	1.4	UL/CUL	7.95	6.95
140880	ReliaPro	DC1215ST	+12/1.5	Stripped & Tinned	120@60	18	No	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	12.95	11.95
143715	ReliaPro	DC1220F1	+12/2.0	2.1mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6'	2.2	UL/CUL	14.95	13.95
2211178	ReliaPro	SY-12200	+12/2.0	2.5mm x 5.5mm F 2	120@60	24	No	3.8 x 2.6 x 2.1	6'/6'	2.1	UL/CUL	12.95	11.95
143722	ReliaPro	DC1220F5	+12/2.0	2.5mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6'	2.2	UL/CUL	15.95	14.95
143731	ReliaPro	DC1220M3	+12/2.0	3.5mm M 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6'	1.9	UL/CUL	14.95	13.49
2197898	ReliaPro	MKD66123400	+12/3.4	5-pin DIN M	120@60	40	No	5.1 x 3.6 x 2.6	6'/6'	3.0	UL/CUL	12.95	11.49
2099569	ReliaPro	57-1607-U4D	+16/0.7	2.5mm x 5.5mm F 2	120@60	19	No	3.6 x 2.7 x 3.6	6'/6'	1.3	UL	2.95	2.49
174845	ReliaPro	GQ-ADT57250-0044	+24/1.0	2.1mm x 5.5mm F 2	120@60	24	No	3.4 x 2.6 x 2.2	6'/6'	2.6	UL	13.95	12.95
139096	ReliaPro	EHU240120	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.4 x 3.1 x 2.6	6'/6'	2.5	—	14.95	13.95
2197572	ReliaPro	EHU240200	+24/2.0	2.1mm x 5.5mm F 2	120@60	48	No	4.4 x 3.1 x 2.6	6'/6'	2.5	—	19.95	17.95
2-Wire AC Input – Regulated Switching Table-Top – Single Output													★ Web Code: DDZ	
1940299	Mean Well	GS18B05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	4'/1	0.5	UL/CUL/TUV/CE	$11.95	$10.95
1940328	Mean Well	GS18B12-P1JT	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CUL/TUV/CE	11.95	10.95
2167445	ReliaPro	ADPV16	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	3.6 x 1.6 x 1.1	5'/1	0.4	UL/CUL/CE/CSA	19.95	18.95
2155321	ReliaPro	PA1045-120T2B375-APF02	+12/3.75	2.1mm x 5.5mm F 2	90-264@50-60	45	Yes	4.3 x 2.1 x 1.2	6'/1	0.5	UL/CUL/TUV/CE	22.95	20.49
2155330	ReliaPro	PA1045-120T2B375-APF04	+12/3.75	2.5mm x 5.5mm F 2	90-264@50-60	45	Yes	4.3 x 2.1 x 1.2	6'/1	0.5	UL/CUL/TUV/CE	22.95	20.49
1940521	Mean Well	GS25B15-P1J	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CUL/TUV/CE	11.95	10.95
1940547	Mean Well	GS25B24-P1J	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CUL/TUV/CE	11.95	10.95
221613	Mean Well ✓	P30B-6P2JT	+24/1.12	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	9.95	9.49
1707139	Mean Well	ES25B48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1	0.4	UL/CUL/TUV/CE	11.95	10.95
2-Wire AC Input – Regulated Switching Table-Top – Triple Output													★ Web Code: TTO	
196138	DVE	DSA-0283A	+5/1, +12/1.49 -5/0.43 (Requires 20% min. load on all outputs)	5-pin DIN M	100-240@47-63	23	No	4.9 x 2.7 x 1.5	6'/1	0.8	UL/CSA/TUV	$2.95	$2.65
3-Wire AC Input – Regulated Switching Table-Top – Single Output													★ Web Code: DDZ	
309876	ReliaPro	GI12-USO520	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	2.6 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	$11.95	$10.95
196218	GlobTek	GT-21089-1305T3	+5/2.0	2.1mm x 5.5mm F 2	120-240@50-60	10	No	3.4 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	15.95	14.49
1955642	Delta	ADP-105B	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	3.3 x 1.9 x 1.2	6'/2	0.3	UL/CUL/CE	4.95	4.49
2115506	OEM	SYS1089-1305-T3	+5/2.6	2.1mm x 5.5mm F 3	100-240@50-60	13	No	3.4 x 1.8 x 1.3	6'/2	0.3	UL/CUL/CE	6.95	5.95
1940387	Mean Well	GS18A05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	Yes	3.7 x 2.1 x 1.4	4'/2	0.5	UL/CUL/TUV/CE	11.95	10.95
1940571	Mean Well	GS25A05-P1J	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	3.7 x 2.1 x 1.4	4'/2	0.5	UL/CUL/TUV/CE	11.95	10.95
1952337	Mean Well	GS40A05-P1J	+5/5.0	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	4.9 x 2.0 x 1.2	4'/2	0.7	UL/CUL/TUV/CE	15.95	14.49
2202511	Switchbox	UP0301E-05P	+5/6.0	2.5mm x 5.5mm F 2	100-240@47-63	30	No	4.7 x 2.4 x 1.3	4'/2	0.5	UL/CUL/TUV/CE	24.95	22.95
2123266	Mean Well	GS60A05-P1J	+5/6.0	2.1mm x 5.5mm F 2	90-264@47-63	30	Yes	4.9 x 2.0 x 1.2	3.3'	0.7	UL/TUV/BSMI/CCC	17.95	15.95
320081	GlobTek	TR9CA6000LCP-Y	+5/6.0	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	4.7 x 2.4 x 1.3	6'/2	0.7	UL/CUL/TUV/CE	39.95	35.95
2144956	ReliaPro	GQ65-060330-EI	+6/3.3	2.1mm x 5.5mm F 2	100-240@50-60	20	No	3.6 x 2.0 x 1.3	6'/3	0.3	UL/TUV/CE	14.95	13.49
206529	Mean Well	GS40A07-P1J	+7.5/5.34	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6'/2	1.5	UL/CUL/TUV/CE	15.95	14.49
2103118	Mean Well	GS60A07-P1J	+7.5/6.0	2.1mm x 5.5mm F 2	90-264@47-63	45	Yes	4.9 x 2.0 x 1.2	3.3'/2	0.7	UL/CUL/TUV/CE	17.95	15.95
2173036	Phihong	PSA18U-090	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.9 x 2.2 x 1.2	5'/2	0.5	UL/CUL/TUV/CE	9.95	8.95
1940408	Mean Well	GS18A09-P1J	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'/2	0.6	UL/CUL/TUV/CE	11.95	10.95
1940598	Mean Well	GS25A09-P1J	+9/2.77	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	6'	0.4	UL/CUL/TUV/CE/CEC	11.95	10.95
2102916	Mean Well	GS40A09-P1J	+9/4.5	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	3.3'/2	0.6	UL/CUL/TUV/CE	15.95	14.49
1952361	Mean Well	GS60A09-P1J	+9/6.0	2.1mm x 5.5mm F 2	90-264@47-63	54	Yes	4.9 x 2.0 x 1.3	4'/2	0.7	UL/CUL/TUV/CE	17.95	15.95
2150782	ReliaPro	GQ65-120100EI	+12/1.0	2.1mm x 5.5mm F 2	100-240@50-60	12	No	3.6 x 1.9 x 1.3	6'/2	0.3	TUV(US)/TUV/CE	11.95	10.95
1954244	Mean Well	GS15A-3P1J	+12/1.25	2.1mm x 5.5mm F 2	90-264@47-63	15	No	3.9 x 2.3 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	13.95	12.95
228988	Phihong	PSA18U-120DIN	+12/1.5	3-pin DIN M	100-240@47-63	18	No	3.9 x 2.2 x 1.2	4'/2	0.7	UL/CUL/TUV/CE	19.95	17.95

* See accessory table-top power cord chart on page 94 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord
✓ CEC Equivalent available. Add a "C" before part number for CEC version.   CEC

★**For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box**

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AC-to-DC Regulated Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 99) for just $2.50 ea. Overmolding also available @ $4.00 ea. A 100 pc. minimum order applies.

2135515 | 2172771 | 2099294 | 2139006 | **NEW MARKED IN PINK** | 2172789

cec

◆ Polarity 1 (+)—(c)—(−) (center negative)
Polarity 2 (−)—(c)—(+) (center positive)

Female (F) | Female Right Angle | DIN (M) | 4-Pin Molex

UL CSA ▲ GS CE

See page 102 for International Power Cords

Power

Part No.	Manufacturer	Product No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity ◆	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10
				3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)								★ Web Code: DDZ	
1940416	Mean Well	GS18A12-P1JU	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'/6'	0.5	UL/CUL/TUV/CE	$13.95	$12.95
2213915	Mean Well **	GSM18B12-P1J	+12/1.5	2.1mm x 5.5mm F 2	80-264@47-63	18	Yes	3.1 x 2.1 x 1.3	6'/ 1	0.4	UL/CUL/CE/FCC/TUV/CB	12.95	11.49
2135507	SPC Technology	SA121A6F-11	+12/1.6	2.1mm x 5.5mm F 2	100-250@47-63	19	No	3.2 x 2.2 x 1.9	6'/ 2	0.2	UL/CUL/TUV/CE	8.95	7.95
2197601	Delta	EADP-24KBB	+12/2.0	2.1mm x 5.5mm F 2†	100-240@50-60	24	No	4.7 x 2.0 x 1.2	7'/ 2	0.5	UL/CUL/CE	9.95	8.95
2190047	Mean Well	GS25A12-P1J	+12/2.08	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	4'/ 2	0.46	UL/CUL/TUV/CE	11.95	10.95
1940601	Mean Well	GS25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	4'/6'	0.5	UL/CUL/TUV/CE	13.95	12.95
2213991	Mean Well **	GSM25B12-P1J	12/2.08	2.1mm x 5.5mm F 2	80-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6'/ 1	0.5	UL/CUL/CE/FCC/TUV/CB	13.49	11.95
2154978	ReliaPro	GQ65120250-E1	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	No	3.6 x 1.9 x 1.3	6'/ 2	0.5	TUV(US)/CE	10.49	9.49
2214070	Mean Well **	GSM36B12-P1J	+12/3.0	2.1mm x 5.5mm F 2	80-264@47-63	36	Yes	3.1 x 2.1 x 1.3	6'/ 1	0.5	UL/CUL/CE/FCC/TUV/CB	14.49	12.95
2129158	Sparkle Power	FSP040-DGAA1	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.0 x 1.2	5'/ 2	0.5	UL/CUL/TUV/CE	20.95	18.95
1952345	Mean Well	GS40A12-P1J	+12/3.34	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'/ 2	0.7	UL/CUL/TUV/CE	15.95	14.49
2079357	Mean Well	GS40A12-P1M	+12/3.34	2.5mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'/ 2	0.7	UL/CUL/TUV/CE	16.95	15.49
2214150	Mean Well **	GSM40B12-P1J	+12/3.34	2.1mm x 5.5mm F 2	80-264@47-63	40	Yes	1.25 x 1.9 x 4.95	3.3'/ 1	0.63	UL/CUL/CE/FCC/TUV/CB	18.95	17.49
1940264	ReliaPro	EA1050E	+12/3.5	2.1mm x 5.5mm F 2	100-240@50-60	42	Yes	4.7 x 2.4 x 1.4	4'/ 2	0.6	UL/CUL/TUV/CE	14.49	13.49
1940272	ReliaPro	GQ65-120416-EI	+12/4.16	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.5 x 1.9 x 1.4	4'/ 2	0.6	TUV(US)/CE	15.95	14.95
2158485	Power-One	3F42050	+12/4.2	2.1mm x 5.5mm F 2†	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	6'/6'	—	UL/CUL/CE	11.95	10.95
2129609	Phihong	PSA65U-120	+12/5.0	2.1mm x 5.5mm F 2	100-240@50-60	60	No	5.9 x 2.8 x 1.5	3.3'/ 2	1.0	UL/CUL/CE	14.95	13.49
2172771	ReliaPro	EA1050A-120	+12/5.0	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.7 x 2.4 x 1.4	4'/ 2	0.7	UL/CUL/TUV/CE	15.95	14.49
1952370	Mean Well	GS60A12-P1J	+12/5.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 1.9 x 1.2	4'/ 2	0.7	UL/CUL/TUV/CE	17.95	15.95
2214230	Mean Well **	GSM60B12-P1J	+12/5.0	2.1mm x 5.5mm F 2	80-264@47-63	60	Yes	1.25 x 1.9 x 4.95	3.3'/ 1	0.7	UL/CUL/CE/FCC/TUV/CB	21.95	19.95
2099420	Sparkle Power	AD060DBAEI-J25R	+12/5.0	2.5mm x 5.5mm F 2†	100-240@50-60	60	Yes	4.3 x 2.4 x 1.2	5'/ 2	0.5	UL/CUL/CE	27.95	24.95
2078291	Mean Well	GS90A12-P1M	+12/6.67	2.5mm x 5.5mm F 2	100-240@50-60	80	Yes	5.7 x 2.3 x 1.3	4'/ 2	0.9	UL/CUL/TUV/CE	28.95	25.95
2210466	Mean Well **	GSM90B12-P1M	+12/6.67	2.5mm x 5.5mm F 2	80-264@47-63	80	Yes	5.71 x 2.36 x 1.26	3.3'/ 1	0.99	UL/CUL/CE/FCC/TUV	31.95	28.95
221429	Mean Well	U65S105-P2JU	+12/6.7	2.1mm x 5.5mm F 2	100-240@50-60	80	Yes	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	41.95	38.95
2129211	Mean Well	GS120A12-R7B	+12/8.5	4-pin DIN M	85-264@47-63	102	Yes	6.6 x 2.6 x 1.4	4'/ 2	1.4	UL/CUL/TUV/CE	42.95	38.95
2214281	Mean Well **	GSM120B12-R7B	+12/8.5	4-pin DIN	80-264@113-370	102	Yes	6.6 x 2.7 x 1.4	3.3'/ 1	1.3	UL/CUL/CE/FCC/TUV/CB	49.95	44.95
2205165	ReliaPro	EA11011H-120	+12/10	4-pin DIN M	100-240@47-63	120	Yes	5.4 x 2.3 x 1.3	4'/ 2	2.4	UL/CUL/CB/CE	39.95	36.95
2122183	Mean Well	GS160A12-R7B	+12/11.5	4-pin DIN M	85-264@47-63	138	Yes	6.9 x 2.8 x 1.4	4'	0.94	UL/TUV/BSMI/CCC	50.95	45.95
2099294	Mean Well	GS220A12-R7B	+12/15	4-pin DIN M	90-264/127-370@47-63	180	Yes	8.3 x 3.4 x 1.8	3.3'/ 2	1.0	UL/CUL/TUV/CE	74.95	67.95
2139006	ENG Electric	3G-301DN13	+13.5/2.2	4-pin Molex	100-240@50-60	30	No	4.6 x 1.9 x 1.2	2'6"/5'	0.8	UL/CUL	7.95	6.95
1940432	Mean Well	GS18A15-P1J	+15/1.2	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	10.95	9.95
1940619	Mean Well	GS25A15-P1J	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	11.95	10.95
2202554	Phihong	PSA30U-150	+15/2.0	2.1mm x 5.5mm F 2†	100-240@47-63	30	No	4.4 x 2.4 x 1.4	6'/ 2	0.5	UL/TUV/CSA	14.95	13.49
221577	Mean Well	GS40A15-P1J	+15/2.67	2.1mm x 5.5mm F 2	90-264@50-60	40	Yes	4.9 x 2.0 x 1.3	6'/ 2	0.8	UL/CUL/TUV/CE	15.95	14.49
2171559	Mean Well	GS40A15-P1JU	+15/2.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	3.3'/6'	0.6	UL/CUL/TUV/CE	17.95	15.49
1954295	Mean Well	GS60A15-P1J	+15/4.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	4'/ 2	0.7	UL/CUL/TUV/CE	17.95	15.95
2078320	Mean Well	GS90A15-P1M	+15/6.0	2.5mm x 5.5mm F 2	100-240@50-60	90	Yes	5.7 x 2.3 x 1.3	3'3"/ 2	0.8	UL/CUL/TUV/CE	24.95	22.95
2210474	Mean Well **	GSM90B15-P1M	+15/6.0	2.5mm x 5.5mm F 2	80-264@47-63	90	Yes	5.71 x 2.36 x 1.26	3.3'/ 1	0.99	UL/CUL/CE/FCC/TUV	31.95	28.95
2100785	Mean Well	GS220A15-R7B	+15/13.4	4-pin DIN M	90-264@47-63	201	Yes	8.3 x 3.3 x 1.8	3'	0.94	CE/CUL/TUV/UL	74.95	67.95
2145107	SYN Electronics	SYS-1097-4018	+18/2.2	2.1mm x 5.5mm F 2	100-240@47-63	40	Yes	4.7 x 2.4 x 1.3	4'/ 2	0.7	UL/TUV/CE	10.95	9.95
2102756	Mean Well	GS40A18-P1J	+18/2.22	2.1mm x 5.5mm F 2	90-264@47-63	39.6	Yes	5 x 2 x 1.3	6'/ 2	0.6	UL/CUL/TUV/BSMI/CCC/CB/FCC/CE	15.95	14.49
2154951	Mean Well	GS60A18-P1JU	+18/3.33	2.1mm x 5.5mm F 2	90-264@50-60	60	Yes	4.9 x 2.0 x 1.2	6'/6'	0.8	UL/CUL/TUV/CE	19.95	17.95
2101841	Mean Well	GS90A19-P1M	+19/4.74	2.1mm x 5.5mm F 2	90-264@47-63	90	Yes	5.7 x 2.3 x 1.3	4'/ 2	0.94	UL/TUV/BSMI/CCC	28.95	25.95
1940459	Mean Well	GS18A24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	11.95	10.95
2213940	Mean Well **	GSM18B24-P1J	+24/0.75	2.1mm x 5.5mm F 2	80-264@47-63	18	Yes	3.1 x 2.1 x 1.3	6'	0.4	UL/CUL/CE/FCC/TUV/CB	12.95	11.49
2190346	Mean Well	GS25A24-P1J	+24/1.04	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	6'/ 1	0.46	UL/CUL/TUV/CE	11.95	10.95

* See accessory table-top power cord chart on page 94 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord   **Medical (2-wire)
† Right angle   CEC

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AC-to-DC Regulated Switching Table-Top Power Supplies

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2135515   2172771   2099294   2139006   **NEW MARKED IN PINK** cec   2172789

◆ Polarity 1 (+)—(c)—(−) (center negative)
Polarity 2 (−)—(c)—(+) (center positive)

Female (F)   Female Right Angle   DIN (M)   4-Pin Molex

See page 102 for International Power Cords

Part No.	Manufacturer	Product No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity ◆	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing 1	10
	3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)											★ Web Code: DDZ	
1940635	Mean Well 🌱	GS25A24-P1J	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'/6'	0.5	UL/CUL/TUV/CE	$13.95	$12.95
2214029	Mean Well **🌱	GSM25B24-P1J	+24/1.04	2.1mm x 5.5mm F 2	80-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6'/ 1	0.4	UL/CUL/CE/FCC/TUV/CB	13.49	11.95
380577	Mean Well	GS25A24-P1MU	+24/1.04	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CUL/TUV/CE	19.95	17.95
2172789	ReliaPro 🌱	EA1030D1	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.8 x 1.7 x 1.2	6'/6'	0.4	UL/CUL/TUV/CE	12.95	11.95
2214109	Mean Well **🌱	GSM36B24-P1J	+24/1.5	2.1mm x 5.5mm F 2	80-264@47-63	36	Yes	3.1 x 2.1 x 1.3	6'/ 1	0.5	UL/CUL/CE/FCC/TUV/CB	14.49	12.95
1952353	Mean Well 🌱	GS40A24-P1J	+24/1.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	6'/ 2	0.7	UL/CUL/TUV/CE	15.95	14.49
2214184	Mean Well **🌱	GSM40B24-P1J	+24/1.67	2.1mm x 5.5mm F 2	80-264@47-63	40	Yes	1.3 x 1.9 x 5.0	5'/ 1	0.63	UL/CUL/CE/FCC/TUV/CB	18.95	17.49
1537256	ReliaPro	OH-1048A2401700U-U	+24/1.7	2.5mm x 5.5mm F 2	90-264@47-63	40	Yes	4.5 x 2.0 x 1.3	6'/ 2	0.5	UL/CUL/CE	15.95	14.49
1942788	ReliaPro 🌱	EA1050B-240	+24/2.5	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6'/ 2	1.8	UL/CUL/TUV/CE	17.49	15.49
1952214	Mean Well 🌱	GS60A24-P1J	+24/2.5	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.3	6'/ 2	0.7	UL/CUL/TUV/CE	17.95	15.95
1950913	ReliaPro 🌱	EA1050B-240	+24/2.5	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6'/ 2	1.8	UL/CUL/TUV/CE	19.95	18.95
2214264	Mean Well **🌱	GSM60B24-P1J	+24/2.5	2.1mm x 5.5mm F 2	80-264@47-63	60	Yes	1.3 x 1.9 x 5.0	5'/ 1	0.7	UL/CUL/CE/FCC/TUV/CB	21.95	19.95
2172797	ReliaPro 🌱	EA11001D-240	+24/3.75	2.5mm x 5.5mm F 2	100-240@50-60	90	Yes	5.4 x 2.3 x 0.4	4'/ 2	0.9	UL/CUL/TUV/CE	26.95	24.95
2078338	Mean Well 🌱	GS90A24-P1M	+24/3.75	2.5mm x 5.5mm F 2	100-240@50-60	90	Yes	5.9 x 2.3 x 1.2	4'/ 2	0.9	UL/CUL/TUV/CE	28.95	25.95
2210491	Mean Well **🌱	GSM90B24-P1M	+24/3.75	2.5mm x 5.5mm F 2	80-264@47-63	90	Yes	5.7 x 2.4 x 1.3	4'/ 1	0.99	UL/CUL/CE/FCC/TUV	31.95	28.95
2135208	Mean Well	GS120A24-P1M	+24/5.0	2.5mm x 5.5mm F 2	85-264@47-63	120	Yes	6.6 x 2.6 x 1.4	4'/ 2	1.4	UL/CUL/TUV/CE	42.95	38.95
2214310	Mean Well **🌱	GSM120B24-R7B	+24/5.0	4-pin DIN M	80-264@113-370	120	Yes	6.6 x 2.7 x 1.4	4'/ 1	1.3	UL/CUL/CE/FCC/TUV/CB	49.95	44.95
2122212	Mean Well	GS160A24-R7B	+24/6.67	4-pin DIN M	85-264@47-63	160	Yes	6.9 x 2.8 x 1.4	4'/ 2	1.5	UL/CUL/TUV/CE	50.95	45.95
2099286	Mean Well	GS220A24-R7B	+24/9.2	4-pin DIN M	90-264@47-63	220	Yes	8.3 x 3.4 x 1.8	3.3'/ 2	2.4	UL/CUL/TUV/CE	74.95	67.95
2188191	Mean Well 🌱	GS280A24-C4P	+24/11.7	4-pin rectangular	90-264@47-63	280	Yes	8.7 x 3.7 x 1.8	3'/ 2	2.75	†See below	89.95	79.95
1940643	Mean Well 🌱	GS25A28-P1J	+28/0.89	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	11.95	10.95
1940651	Mean Well 🌱	GS25A48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'/ 2	0.5	UL/CUL/TUV/CE	11.95	10.95
172065	Mean Well	SPU50-9U	+48/1.25	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	14.95	13.95
1952396	Mean Well 🌱	GS60A48-P1JU	+48/1.25	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	6'/6'	0.7	UL/CUL/TUV/CE	19.95	17.95
2210503	Mean Well **🌱	GSM90B48-P1M	+48/1.87	2.5mm x 5.5mm F 2	80-264@47-63	90	Yes	5.7 x 2.4 x 1.2	4'/ 1	0.99	UL/CUL/CE/FCC/TUV	31.95	28.95
2122221	Mean Well	GS160A48-R7B	+48/3.34	4-pin DIN M	85-264@47-63	160	Yes	6.9 x 2.8 x 1.4	4'	0.94	UL/TUV/BSMI/CCC	50.95	45.95
2100945	Mean Well 🌱	GS220A48-R7B	+48/4.6	4-pin DIN M	90-264@47-63	221	Yes	8.3 x 3.3 x 1.8	3'	0.94	CE/CUL/TUV/UL	74.95	67.95
	3-Wire AC Input – Regulated Switching Table-Top – Double & Triple Output											★ Web Code: TDO	
228988	Phihong	PSA18U-120	Din +12/1.5	3-pin DIN M	100-240@50-60	18	No	3.8 x 2.2 x 1.2	5'/ 2	1.1	UL/CUL/TUV	$19.95	$17.95
196270	ReliaPro	PSU25A13	+5/2.5, +12/1.0	4-pin mini DIN M	100-240@47-63	25	No	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	34.95	31.49
221720	Mean Well	P25A14E-R1BU	+5/2.5, +15/0.3 -15/0.3	5-pin DIN M	100-240@50-60	25	Yes	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	26.95	24.95
190960	Mean Well	P25A13D-R1B	+5/2.5, +12/0.8 -12/0.3	5-pin DIN M	100-240@50-60	26	Yes	4.1 x 2.6 x 1.4	6'/ 2	1.1	CUL/TUV/CE	29.95	26.95
237367	Mean Well	P50A14E-R1B	+5/3.5, +15/1.2 -15/0.3	5-pin DIN M	100-240@47-63	42	Yes	5.8 x 3.0 x 1.7	4'/ 2	1.2	UL/CUL/TUV/CE	44.95	39.95
2217844	ReliaPro	T40-9312A	+5/5.0, +12/1.2 -12/0.3	6-pin DIN M	100-240@50-60	43	No	6.0 x 3.3 x 1.9	4'/ 2	1.2	UL/CUL/TUV/CE	39.95	34.95
221702	Mean Well	P50A13D-R1BU	+5/4.0, +12/2.0 -12/0.5	5-pin DIN M	100-240@50-60	50	Yes	5.7 x 3.0 x 1.7	4'/6'	1.5	UL/CUL/TUV/CE	49.95	44.95

* See accessory table-top power cord chart on page 94 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord   **Medical (2-wire)
🌱 CEC   †UL/CUL/PSE/TUV/BSMI/CCC/CB/FCC/CE

REGULATED SWITCHING TABLE TOP POWER SUPPLIES — BEST SELLERS

Part No.	Voltage	Current	Page	Price
196218	5VDC	2A	95	$15.95
1940408	9VDC	2A	95	11.95
1940264	12VDC	3.5A	96	14.49
1952370	12VDC	5A	96	17.95

1952370   2172797

Part No.	Voltage	Current	Page	Price
2205165	12VDC	10A	96	$39.95
1940619	15VDC	1.66A	96	11.95
1942788	24VDC	2.5A	97	17.49
2172797	24VDC	3.75A	97	26.95

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box
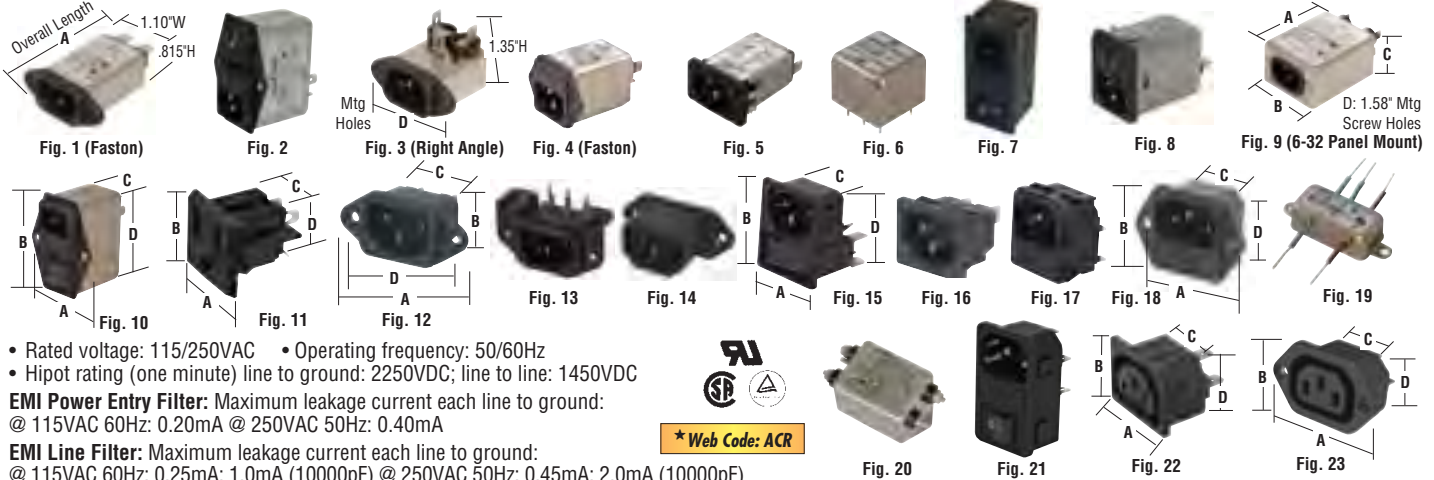
3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Power Supplies, Wall Adapters & Power Cables

Power (sidebar)

velleman 10-Watt Switching Wall Adapter

- **Output voltage: 3, 4.5, 6, 7.5, 9, 12VDC selectable**
- Output connectors: 2.5mm and 3.5mm **male**, 1mm x 3mm, 1.35mm x 3.5mm, 1.7mm x 4mm, 2.1 x 5mm, 2.5mm x 5.5mm, 1.5mm x 5.5mm **female**
- Input voltage: 100-230VAC, 50/60Hz
- Output current: 0.8 to 1.5A

NEW MARKED IN PINK

Part No.	Mfr. Part No.	Size (L x W x H)	1	10
2137182	PSSMV1USA	2.6" x 1.1" x 2.9"	$15.95	$14.49

velleman 30-Watt Switching Table-Top Power Supply

- **Output voltage: 5VDC to 12VDC in 1V increments**
- Output connectors: 2.5mm & 3.5mm **male**, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm & 2.5mm x 5mm **female**
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Short-circuit, overload protection
- Input voltage: 100-240VAC @ 50/60Hz
- LED power indicator

Includes: AC power cord

Part No.	Mfr. Part No.	Output Current	Size (L x W x H)	1	10	50
2158354	PSSE13U	1.5A to 4A	3.5" x 1.8" x 1.2"	$39.95	$36.95	$32.95

Regulated Desktop/Benchtop Power Supply

This is a high powered, regulated power supply that is perfect for hobbyists. Typical applications are model railroads, slot car racing, science projects and other applications requiring 12V @ 24A power source. Features output connections heavy duty binding posts and cigarette lighter plug with a 2.1mm x 5.5mm female plug.

- Input voltage: 100VAC to 240VAC @ 50-60Hz   • CUL/UL recognized
- Includes: 6' IEC power cord, 6' coiled cigarette lighter plug cord with a 2.1mm x 5.5mm right angle female plug   • Max. output voltage: 12V @ 24A

Part No.	Mfr. Part No.	Size (L x W x H)	Wt. (lbs.)	1	5	25
2197599	PS24B	14.5" x 6" x 3.5"	9.0	$59.95	$53.95	$49.95

JAMECO ValuePro In-Car USB Charger/Adapter

- Input voltage: 12VDC to 24VDC
- Output voltage: 5VDC @ 600mA
- Output connector: USB type A
- LED indicator for power   • Overall length: 2"
- Compatible with iPhone, iPod, Samsung

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50
2158320	CC001-BLK	2.1" x 0.9" x 0.8"	$3.95	$3.59	$3.25

JAMECO ValuePro DC Cords with Pigtail – 6' length

- 24 AWG   • Color: black

★ **Web Code: MFP**

Part No.	Cross Ref. No.	Fig.	Description (Barrel) ID x OD x L (mm)	1	10	100
2114706	6FT#245.5X1.7	1	Plug, 1.7 x 5.5 x 12	$1.15	$.99	$.89
2096763	DCCORD2.1	1	Plug, 2.1 x 5.5 x 12	1.59	1.39	1.15
2210925	DCCORD2.1*	1	Plug, 2.1 x 5.5 x 9.5	2.49	1.95	1.59
2096771	DCCORD2.5	1	Plug, 2.5 x 5.5 x 12	1.59	1.39	1.15
2114600	6FT#245.5X2.1	2	Jack, 2.1 x 5.5 x 12	1.59	1.39	1.15
2114597	6FT#245.5X2.5	2	Jack, 2.5 x 5.5 x 12	1.59	1.39	1.15

*18 AWG wire

Fig. 1

Fig. 2

JAMECO ValuePro DC Extension Power Cables

Part No.	Mfr.	Cross Ref. No.	Description (Barrel) ID x OD x L (mm)	AWG	Color	1	10	100
2099147	ValuePro	DCEXTCORD2.1- 3FT	2.1F x 2.1M x 3' cable	18	Black	$2.25	$1.95	$1.75
2099121	ValuePro	DCEXTCORD2.1- 6FT	2.1F x 2.1M x 6' cable	18	Black	2.49	2.25	1.95
2099155	ValuePro	DCEXTCORD2.5- 3FT	2.5F x 2.5M x 3' cable	18	Black	2.25	1.95	1.75
2099139	ValuePro	DCEXTCORD2.5- 6FT	2.5F x 2.5M x 6' cable	18	Black	2.49	2.25	1.95

JAMECO ReliaPro USB-A Power Cable w/ Interchangeable Tips

- 4' cable   • 26 AWG
- USB-A male connector   • UL/CSA approved
- Tips: 1.3mm x 5.5mm, 1.7mm x 4.0mm, 1.7mm x 4.8mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 2.9mm x 6.3mm **female** 3.2mm x 5.0mm and 4.3mm x 6.0mm **male**
- For use with P/Ns 662805 & 2138636 wall adapters (below)

Part No.	Cross Ref. No.	1	10	50	100
2081625	USBAC8	$4.95	$4.49	$3.95	$3.59

EMERSON 5VDC @ 200mA Wall USB Adapter

- Works with digital camera, cell phones, PDA, MP3 and other USB devices   • LED indicator
- TUV/FCC approved   • Output voltage: 5VDC @ 200mA
- Input volt.: 100-240VAC @ 50/60Hz
- Size: 2.5"H x 1.5"W x 0.8"D
- Cable and tips use P/N 2081625 (right above)

Part No.	Mfr. Part No.	1	10	50	100
2138636	SW013US-0500020US	$3.95	$3.59	$3.19	$2.79

JAMECO ValuePro 5VDC @ 500 & 1000mA USB Wall Adapters

- Works with digital camera, cell phones, PDA, MP3 and other USB devices
- Flip up prongs
- UL FCC approved
- Input voltage: 100-240VAC @ 50/60Hz
- Cable and tips use P/N 2081625 (above)

2197644   2197652

Part No.	Mfr. Part No.	Size (H x W x D)	1	10	50	100
2197644	FEF0500050AIBU*	2.2" x 1.5" x 1.1"	$5.95	$5.39	$4.79	$4.29
2197652	GFP051-0505-1*	2.5" x 1.9" x 0.9"	5.95	5.39	4.79	4.29
2210888	1128**	2.6" x 1.3" x 1.5"	7.95	7.19	6.49	5.79

*500mA   **1000mA

PHIHONG 5VDC@0.5A Interchangeable Wall Plug Adapters
With USB Type A Output Socket

- Voltage input: 90-264VAC @ 47-63Hz with AC plug (USA)
- Leakage current: 0.20µA max.   • US AC plug in
- Use interchangeable tips P/N 2081625 (above)
- Size: P/N 662805: 2.9"L x 1.8"W x 1.3"H; P/N 2161570: 1.7"L x 1.8"W x 0.8"H

662805: AC plug clips not included; use P/N 229181, pg 92

JAMECO ReliaPro   662805

Part No.	Mfr. Part No.	Current (A)	Agency	1	10	50
662805	PSC03R-050-R 🍃	0.5	UL/CUV/CE	$9.95	$8.95	$7.95
2161570	SA050100R1340*	1.0	UL/CE	10.95	9.95	8.95

🍃 CEC   *Includes US, EU, UK AC plug clips

JAMECO ValuePro Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse
115002: Screw assembly with strain relief (no cord)
124760: 3' cord with pigtail

115002

124760

Part No.	Fuse	1	10	100
115002	5A/250VAC	$2.25	$1.95	$1.75
124760	3A/250VAC	2.49	2.25	1.95

JAMECO ValuePro Power Cord Adapters

2188545: Receptacle IEC plug C14 to Nema 5-15R
2188553: Receptacle CEE 7/7 to Nema 5-15R plug

2188545   2188553

Part No.	Cross Ref. No.	1	10	50
2188545	YL-3215	$3.95	$3.59	$3.29
2188553	YL-2215	3.95	3.59	3.29

Switchcraft® Male & Female Power Jacks

★ **Web Code: BAM**

Part No.	Mfr.	Product No.	Description Pin Dia. x OD	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	1	10	100
101194	ValuePro	PP024	1.3 x 3.5mm male	6.0 x 6.0 x 9.0	1/D	1/B	$.59	$.55	$.45
2202909	ValuePro	163-0310	1.7 x 4.8mm male	41 x 10.3 Dia.	6/F	3/A	.79	.69	.59
2168114	Adam Tech	ADC-002A-1	2.0 x 6.4mm male	11.0 x 9.0 x 14.3	2/D	1/A	.39	.35	.29
2188625	ValuePro	PJ2155	2.1 x 5.5mm male	10.9 x 9.0 x 14.0	2/D	1/A	.39	.35	.29
101178	ValuePro	PP014	2.1 x 5.5mm male	10.9 x 9.0 x 14.5	2/D	1/A	.39	.35	.29
101179	ValuePro	PP014	2.1 x 5.5mm male	10.9 x 9.0 x 14.5	2/D	1/A	.45	.39	.35
137673	ValuePro	PP013	2.1 x 5.5mm male	10.9 x 9.0 x 14.5	3/D	4/A	.45	.39	.35
151590	ValuePro	DPJ-02IA	2.1 x 5.5mm male	18.0 x 12.6 Dia.	4/C†	1/A	.89	.79	.69
151555	ValuePro	DPJ-026²	2.1 x 5.5mm male	21.0 x 8.0 Dia.	5/C	1/A	1.75	1.59	1.39
281851	Switchcraft	722A²	2.1 x 5.5mm male	21.0 x 8.0 Dia.	7/C	1/A	4.95	4.49	3.95
159611	ValuePro	PJ1014A	2.1 x 5.5mm male	57.5 x 12.6 Dia.	6/F	3/A	1.75	1.59	1.39
2151136	ValuePro	HD2388C	2.1 x 5.5mm male	12.4 x 7.7 Dia.	8/C*	3/A	1.19	.99	.89
2144690	ValuePro	L5225	2.1 x 5.5mm male	11.0 x 9.1 x 14.7	13/D	1/A	.35	.29	.19
2153908	Velleman	CD021**	2.1 x 5.5mm male	13 x 14.5 x 40	17/C	4/C	4.95	4.69	4.45
2210677	ValuePro	WTJ-020-37A	2.1 x 6.4mm male	14.5 x 9 x 10.7	3/D	1/B	.69	.65	.55
207714	ValuePro	HEC0470	2.5 x 5.5mm male	11.0 x 9.0 x 14.5	2/D	1/B	.55	.49	.39
101187	ValuePro	PP014A	2.5 x 5.5mm male	11.0 x 9.0 x 14.5	2/D	1/A	.55	.49	.45
151563	ValuePro	DPJ-026A²	2.5 x 5.5mm male	15.1 x 8.0 Dia.	5/E	1/A	1.49	1.35	1.19
159506	ValuePro	PJ1015A	2.5 x 5.5mm male	57.5 x 12.6 Dia.	6/F	3/A	1.49	1.35	1.19
202358	ValuePro	HD2388	2.5 x 5.5mm male	12.4 x 7.7 Dia.	8/C*	3/A	1.19	.99	.89
281842	Switchcraft	712A²	2.5 x 5.5mm male	15.8 x 7.5 Dia.	7/C	1/A	4.95	4.49	3.95
297553	Switchcraft	PC712A²	2.5 x 5.5mm male	23.3 x 11.0 Dia.	9/D	1/A	3.49	2.49	1.95
2144745	ValuePro	J25M	2.5 x 5.5mm male	11.1 x 8.9 x 13.4	14/C	1/A	.29	.25	.19
2153887	ValuePro	CD017	2.5 x 5.5mm male	13 x 14.5 x 40	14/C	4/F	3.95	3.59	3.25
2168122	Adam Tech	ADC-002A-2	2.5 x 6.4mm male	11.0 x 9.0 x 14.3	2/D	1/A	.59	.55	.49
1773996	Switchcraft	MDPC2ARA	2.5mm female	7.9 x 8.7 x 12.7	15/D	4/B	2.95	2.75	2.49
297035	Switchcraft	142A	3.5mm female	11.1 x 9.5 x 15.8	16/C	4/A	2.49	2.25	1.95
101143	ValuePro	PJ035²¹	3.5mm female	10.0 x 10.0 x 18.5	10/E	2/A	.49	.45	.39
109496	ValuePro	PJ035PM¹	3.5mm female	10.5 x 9.0 x 20.0	11/C	2/A	.49	.45	.39
165730	ValuePro	PJ0354R¹	3.5mm female	15.5 x 5.9 Dia.	12/C	3/A	.79	.69	.59
2183218	ValuePro	M6HDWR	Additional Panel Mounting Hardware indicated with ¹ (pg 79)				.69	.59	.49
281852	Switchcraft	5/16-32HDWR	Additional Panel Mounting Hardware indicated with ² (pg 79)				.69	.59	.49

† Center offset   *Plastic   **Screw terminals

Terminals

Terminals	Code
Solder eyelet	A
PC board	B
Screw term	C

Circuit 1 **Circuit 2** **Circuit 3** **Circuit 4**

Mounting

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F

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Type 1 Type 2 Type 3 Type 4
Type 5 Type 6 Type 7 Type 8
Type 9 Type 10 Type 11 Type 12
Type 13 Type 14 Type 15 Type 16
Type 17 2183218 281852
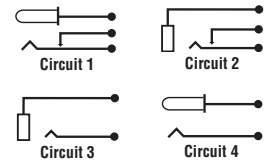
Switchcraft® AC/DC Power Plugs & Adapters

★ **Web Code: MFP**

Part No.	Mfr.	Product No.	Fig.	Description (Barrel) Plug ID x OD x L (mm)	Strain Relief ID x L (mm)	1	10	100
71192	ValuePro	PP137	1	F plug, 1.3 x 3.5 x 9.5	4.1 x 12 (black)	$.79	$.69	$.65
1537395	ValuePro	PL-005	2	F plug, 1.3 x 3.5 x 9.5 (right angle)	2.8 x 11 (black)	.89	.79	.69
191484	ValuePro	PP049W	1	F plug, 2.1 x 5.5 x 9.0	4.6 x 12.5 (white)	.89	.79	.69
2004890	ValuePro	PP049S	1	F plug, 2.1 x 5.5 x 9.5	4.5 x 12.5 (black)	.89	.79	.69
28760	ValuePro	PP049	1	F plug, 2.1 x 5.5 x 9.5 (P205)	4.1 x 12 (black)	.89	.79	.69
2201990	ValuePro	CS1021-HP-12	3	F plug, 2.1 x 5.5 x 12	8.3 x 22 (black)	1.49	1.25	1.09
2179358	ValuePro	27-1136A	7	F plug, 2.1 x 5.5 x 9.5 (locking)	6.0 x 25 (black)	2.95	2.49	1.95
2145123	ValuePro	CS1021-A-12MM	1	F plug, 2.1 x 5.5 x 12	4.3 x 12 (black)	.89	.79	.69
138587	ValuePro	PL-007	2	F plug, 2.1 x 5.5 x 12 (right angle)	2.8 x 11 (black)	.89	.79	.65
147329	ValuePro	PP049L	1	F plug, 2.1 x 5.5 x 14 (P205L)	4.3 x 12 (black)	.89	.79	.65
2153916	Velleman	CD022	9	F plug, 2.1 x 5.5 x 37 (screw term)	—	4.49	4.25	4.05
190538	ValuePro	PP109S	1	F plug, 2.5 x 5.5 x 9.5	4.7 x 13 (black)	.89	.79	.65
281877	Switchcraft	760	3	F plug, 2.5 x 5.5 x 9.5	5.5 x 25 (black)	3.95	3.59	3.25
28768	ValuePro	PP109	1	F plug, 2.5 x 5.5 x 9.5 (P206)	4.7 x 13 (black)	.89	.79	.65
2179366	ValuePro	27-1136B	7	F plug, 2.5 x 5.5 x 9.5 (locking)	6.0 x 25 (black)	2.95	2.49	1.95
2145115	ValuePro	CS1021-B-12MM	1	F plug, 2.5 x 5.5 x 12	4.3 x 12 (black)	.89	.79	.69
147336	ValuePro	PP109L	1	F plug, 2.5 x 5.5 x 14 (P206L)	4.2 x 12 (black)	.89	.79	.69
168242	ValuePro	PP109N	3	F plug, 2.5 x 5.5 x 14	3.9 x 22 (black)	.89	.79	.69
2099163	ValuePro	PL-008	2	F plug, 2.5 x 5.5 x 9.5 (right angle)	2.8 x 11 (black)	.95	.85	.75
2153895	Velleman	CD018	9	F plug, 2.5 x 5.5 x 37 (screw term)	—	4.49	4.25	4.05
101135	ValuePro	JR-1020	4	M plug, — x 2.5 x 11 (mono)	4.3 x 13 (black)	.69	.59	.49
231176	ValuePro	AP-340	11	M plug, — x 3.5 x 14 (stereo)	4.3 x 13.5 (black)	.79	.69	.55
231167	ValuePro	AP-343	10	M plug, — x 3.5 x 14 (stereo)	4.4 x 13 (metal)	1.49	1.25	.99
231160	ValuePro	PJ1035	5	M plug, — x 3.5 x 14 (mono)	4.8 x 13.5 (metal)	1.49	1.25	.99
101152	ValuePro	PJ1035	4	M plug, — x 3.5 x 14.5 (mono)	4.0 x 13 (black)	.69	.59	.49
2200954	ValuePro	JR1037	8	M plug, — x 3.5 x 14.5 (stereo)	4.5 x 12 (black)	1.95	1.75	1.49
2112989	ValuePro	JP1828C	6	Adapter, 2.1mm M to 1.3mm F (1.3"L)	—	1.59	1.45	1.09
1953591	ValuePro	DCJ2.1-DCP2.5	6	Adapter, 2.1mm M to 2.5mm F (1.4"L)	—	1.59	1.45	1.09
2113711	ValuePro	JR1827	6	Adapter, 2.5mm M to 1.7mm F (1.7"L)	—	1.19	1.09	.95
1953604	ValuePro	DCJ2.5-DCP2.1	6	Adapter, 2.5mm M to 2.1mm F (1.4"L)	—	1.59	1.45	1.09

Fig. 1 Strain Relief **Fig. 2**
Fig. 3 Hard Plastic Strain Relief **Fig. 4 (Mono) Strain Relief** **Fig. 5 (Mono) Metal Strain Relief**
Fig. 6 **Fig. 7** **Fig. 8 (Stereo)**
Fig. 9 **Fig. 10 (Stereo)** **Fig. 11 (Stereo) Strain Relief**
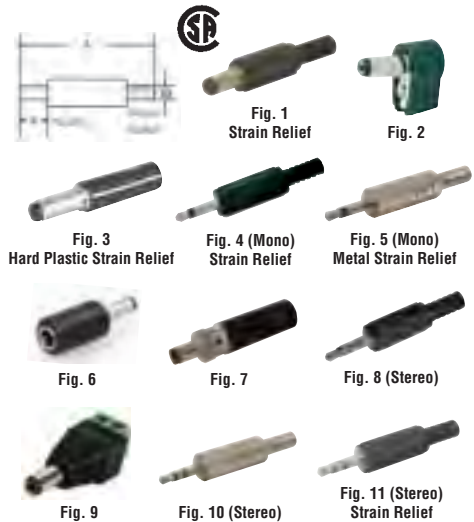
Call for additional OEM pricing on Wall Adapters!

We are happy to change any listed DC wall adapter power plug to a connector of your choice (pg 101) for just $2.50 each or $4.00 each molded. A 100 pc. minimum order applies.

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Power

Power

International Step-Up & Step-Down Transformers

★ *Web Code: RAL*

Part No.	Cross Ref. No.	Fig.	Type	Volt Step	Primary Voltage	Secondary Voltage	Watts (VA)	Dimensions			Wt. (lbs.)	Pricing		
								H"	W"	D"		1	5	25
221331	GIS-500	A	Isolation	—	120VAC	120VAC	500	4.69	3.75	6.00	16.0	$89.95	$79.95	$69.95
85008	GPC-1003R	A	Auto	Up	120VAC	220VAC	300	3.50	3.05	3.95	4.8	41.95	39.95	34.95
85016	GPC1003	B	Auto	Down	220VAC	120VAC	300	3.50	3.05	3.95	4.8	49.95	44.95	39.95
111851	GPC1005	B	Auto	Down	220VAC	120VAC	500	3.99	3.60	4.84	8.5	64.95	59.95	54.95

Fig. A Plug

Fig. B Plug

Output Receptacle
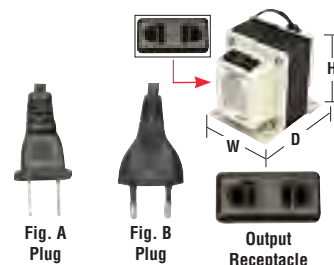
Quick-Connect Power Transformers

• Input voltage: 120/230VAC, 50-60Hz • Terminals: quick-connect, solder

★ *Web Code: BAN*

Part No.	Product No.	Triad Cross*	Input Voltage	Output Voltage	Watts (VA)	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	10	100
101864	XFR2424Q	FD724	120/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	$10.95	$9.49	$8.95
104417	XFR3615Q	FD736	120/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	19.95	18.49	16.95

*Triad cross is for reference only

104387
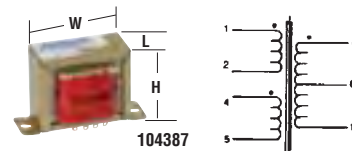
Power Transformers (7.6 Watts to 288 Watts)

★ *Web Code: PTL*

Power transformers have both single and dual-voltage inputs and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

• Primary: 120VAC or 120/230VAC, 50-60Hz

29226

120/230VAC 50-60Hz **Fig. 1**

120VAC 50-60Hz **Fig. 2**

120VAC 50-60Hz **Fig. 3**

120VAC 50-60Hz **Fig. 4**

Part No.	Product No.	Triad Cross#	Primary Color Code			Watts (VA)	Secondary				Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing		
							Voltage	Color Code					L"	W"	H"		1	10	100
105524	XR082-91-R	—	Black	White*	Red	9.0	4.5VCT @ 1A	Blue	Black*	Blue	Wire	1	1.82	2.43	1.67	0.7	$11.95	$10.95	$9.95
102163	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	1	1.84	2.40	1.67	0.8	10.95	9.95	8.95
221400	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	2	1.89	2.75	1.99	1.3	11.95	10.95	9.95
221356	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	2	2.25	4.00	2.63	2.3	12.95	11.95	10.95
2188502	53260	—	Red	—	Green	36.0	12VCT @ 3A	Purple	Multi	Gray	Wire	4	2.36	2.34	1.94	1.3	8.95	7.95	6.95
104387	XFR1225Q	FD612	—	—	—	31.5	12.6VCT @ 2.5A	—	—	—	—	1	1.75	2.33	2.00	1.3	12.95	11.95	10.95
29226	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	3	2.41	2.79	1.99	1.5	13.95	12.49	10.95
102155	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	1	2.35	2.32	1.97	1.5	13.95	12.49	10.95
149771	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.20	2.25	2.2	14.95	13.49	10.95
102121	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	3	2.45	3.21	2.26	2.7	14.95	13.49	10.95
105532	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	1	2.20	2.81	1.99	1.2	11.95	10.95	9.95
149957	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	1	2.25	3.15	2.71	1.8	12.95	11.95	10.95
112513	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	2	2.33	3.16	2.28	1.8	13.95	12.49	10.95
221382	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	3	1.63	2.80	1.97	0.6	10.95	9.95	8.95
102112	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	1	2.41	2.80	1.99	1.5	11.95	10.95	9.95
221373	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	3	2.44	3.60	2.23	2.3	13.95	12.49	10.95
221365	P-8663 †	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	3	2.81	2.94	4.00	4.0	25.95	23.95	21.49
99654	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	3	2.44	3.22	2.30	2.5	11.95	10.95	9.95
102104	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	1	2.45	3.22	2.26	2.8	11.95	10.95	9.95
149797	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	1	2.45	3.22	2.26	2.3	13.95	12.95	10.95

* Center tap   # Triad cross is for reference only   † Solder terminal

★ **Audio Transformers — Enter Web Code SAJ**   ★ **Variable Transformers — Enter Web Code MAR**   ★ **DC Power Plugs & Adapters — Enter Web Code MFP**

REGULATED SWITCHING WALL ADAPTERS — BEST SELLERS

Part No.	Description	Page	Price
2188537	5V @ 2.0A	90	$8.95
380140	9V @ 2.77A	90	11.95
2151101	12V @ 0.5A	90	6.95
2215726	12V @ 2.5A	91	13.95
2173116	12V @ 3.0A	91	17.95
2173108	15V @ 2.0A	91	14.95
380191	18V @ 1.38A	91	11.95

2188537

380140
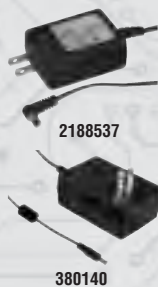
UNREGULATED LINEAR WALL ADAPTERS — BEST SELLERS

Part No.	Description	Page	Price
147707	6V @ .8A	93	$8.95
100853	9V @ .5A	93	7.95
102496	12V @ .5A	93	7.95
2197484	12V @ 1A	93	8.95
2192747	12V @ 1.2A	94	9.95
2205261	18V @ 1A	94	10.95
191556	24V @ .5A	94	9.95
2192641	24V @ .6A	94	7.95

100853

2205261

Split-Bobbin Power Transformers (2.5 to 20VA)

JAMECO ValuePro

Non-concentrically wound w/ primaries & secondaries side-by-side providing low capacitive coupling.
• Primary: 120/230VAC, 50-60Hz
• PC terminal pin spacing for accurate placement

221292

Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	Watts (VA)	Individual Output	Parallel Output	Series Output	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10	100
221292	DSW-312	FS12200	120/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	$6.95	$6.25	$5.59
2210941	DSW-612	—	120/230	20	6.3V @ 1.6A	6.3V @ 3.2A	12.6VCT @ 1.6A	2.25	1.88	1.44	0.8	7.95	6.95	5.95
102593	SPW-2304	FS24500	120/230	12	12V @ .50A	12V @ 1.0A	24VCT @ .50A	2.00	2.50	1.06	0.7	7.95	6.95	6.25
2183402	SPW-1304	—	120/230	20	12V @ .85A	12V @ 1.66A	24VCT @ .83A	1.88	2.25	1.57	1.0	7.95	6.95	5.95

*Triad cross is for reference only

PC Mount Modem Coupling Transformer

JAMECO ValuePro

• Core type: EI-14
• Insulation resistance: 100MΩ
• ±20% impedance matching and DC resistance matching
• Hipot tested: 1000VAC   • Vacuum wax impregnated

Part No.	Cross Ref. No.	Impedance (Ω) Primary	Secondary	Resistance (Ω) Primary	Secondary	Pricing 1	10	100
125357	XFR6006A14	600CT	600CT	65	55	$4.49	$3.95	$3.75

Audio Transformer

NEW MARKED IN PINK

• 300Hz to 3.4kHz
• Primary turns: 11486; Secondary turns: 1
• 200mW power rating
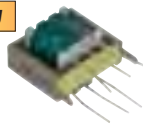
Part No.	Mfr. Part No.	Secondary Impedance	Primary Impedance	1	10	100
2210511	42TM013-RC	8Ω	1kΩ	$2.75	$2.49	$2.25

Data/Voice Coupling Transformer

JAMECO ValuePro

NEW MARKED IN PINK

• Turns ratio: 1:1 ±2%   • DC current: 90mA
• Primary impedance: 600Ω; Secondary impedance: 600Ω
• Operating level: -45dBm to +10dBm

Part No.	Mfr. Part No.	Dimensions (L x W x H)	1	5	25
2210992	TTC-105	21.3mm x 16mm x 19mm	$4.49	$3.95	$3.59

500 to 2000VA Variable Transformers

JAMECO ValuePro

121276

• Input: 110VAC or 220VAC
• Power: 500, 1000 or 2000VA
• Output: 0-240VAC
• Banana/screw input terminals
• Universal US/European output plugs
• Lighted on/off power switch

Part No.	Fuse	Size (W" x D" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V	9.4 x 6.5 x 7.7	14.8
152582	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	5
121276	500VA transformer	$139.95	$129.95
129008	1000VA transformer	169.95	154.95
152582	2000VA transformer	224.95	199.95

TOP SELLING POWER TRANSFORMERS
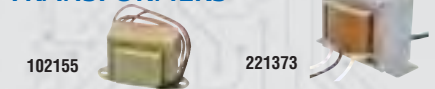
102155   **221373**

Part No.	Mfr.	Description	1	10
105524	ValuePro	4.5VCT @ 1A	$11.95	$10.95
221400	ValuePro	12VAC @ 2A	11.95	10.95
102155	ValuePro	12.6VCT @ 2A	13.95	12.49
221373	ValuePro	24VCT @ 2A	13.95	12.49

PC Mount Audio Transformer

TRIAD

• Impedance matching: 10% over frequency range
• 6-pin PC mount   • Output: 100mW
• Impedance (Ω): 600CT/600CT
• Primary DC Unbalance: 15mA
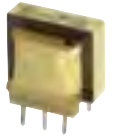
Part No.	Mfr. Part No.	Dimensions (W x D x H)	1	10	100
630459	TY-145P	13/16" x 9/32" x 5/8"	$5.95	$5.49	$4.49

Current Sensing Transformer

JAMECO ValuePro

• Frequency range: 10-50 kHz
• Inductance: 5mH   • Turns: 60
• Sensitivity current (I_{in}): 1A   • Sensitivity voltage (V_{out}): 1V
• Terminating resistor: 50Ω   • Max. current: 300mA

Part No.	Cross Ref. No.	Dimensions (W x D x H)	1	10	100
164718	MTC30101	0.7" x 0.46" x 0.8"	$2.95	$2.59	$2.25

320VA Variable AC Transformer

JAMECO ValuePro

• Input voltage: 110VAC @ 50-60Hz   • Max. current: 2.5A
• Matching input/output terminals: P/N 103668 & 109112 (disconnect .25" solderless terminals), pg 64
• Panel mount   • One-year warranty   • Shaft length: 0.5"

Includes: 3 disconnect .25" solderless terminals

Part No.	Cross Ref. No.	Weight	Size (Dia. x H)	1	5	25
149324	PSV-203-R	2.5 lbs.	2.8" x 2.1"	$64.95	$59.95	$54.95

300VA Isolation Transformer 120VAC to 120VAC

JAMECO ValuePro

• Input connector: 5.5' cord with 2-prong plug
• Output volt.: 120VAC @ 2.5A (isolated)
• Input voltage: 120VAC @ 60Hz
• Size: 3.2"W x 4.6"D x 4.2"H   • Weight: 7.0 lbs.

Part No.	Cross Ref. No.	1	5	25
181315	ITR300	$49.95	$44.95	$39.95

Transformer Isolation

JAMECO ValuePro

• Output: 120VAC/4A, 60Hz
• Input: 110VAC 60Hz, 1800VA
• Primary: Current: 14 Amps fuse
  Direct AC#1: 110VAC 60Hz, 900VA
  Direct AC#2: 110VAC 60Hz, 900VA
• Secondary: Current: 7 Amps fuse
  Isolated AC#1: 110VAC 60Hz, 450VA
  Isolated AC#2: 110VAC 60Hz, 450VA
• Dimension: 5"L x 6"W x 9"H

NEW MARKED IN PINK

Part No.	Mfr. Part No.	1	5	25
2214336	GRP-1200	$99.95	$89.95	$84.95

6kV-7.4kV High Voltage Power Supply

MADE IN USA

• Input voltage range: 113VAC to 132VAC
• Input lead wires: 22 AWG UL1015, 7.5"L; AC hot (black), AC COM (white), HV RTN (green)   • Output voltage: 6.0kV to 7.4kVA
• Output lead wires: 22 AWG UL3239, 10" (pink)
• UL94V-0 rated encapsulant filled epoxy   • Size: 3.0"L x 1.2"W x 1.0"H

Part No.	Mfr. Part No.	Description	1	10	50	100
2100136	CS2080A3	High voltage power supply	$5.95	$4.95	$3.95	$2.95

EMI Suppression Cores with Case

Reduce Electromagnetic (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.

218174   **1952901**

• Impedance at 100MHz between 75-225Ω min.
• Color: black

JAMECO ValuePro   **Round**

Part No.	InDia.	OutDia.	Length	1	10	100
218174	.20"	.64"	1.15"	$1.25	$.99	$.75
217842	.34"	.78"	1.40"	1.49	1.25	.99
2202600	.38"	.87"	1.34"	1.49	1.25	.99
2081810	.38"	1.0"	0.65"	1.25	.99	.75

Laird   **Square**

Part No.	InDia.	Width	Height	Length	1	10	100
2094987	.20"	.55"	.59"	1.40"	$.89	$.75	$.59
1952901	.25"	.70"	.77"	1.30"	.69	.59	.49

Power

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JAMECO ValuePro / DELTA — EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)

Fig. 1 (Faston) Fig. 2 Fig. 3 (Right Angle) Fig. 4 (Faston) Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9 (6-32 Panel Mount) D: 1.58" Mtg Screw Holes

Fig. 10 Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15 Fig. 16 Fig. 17 Fig. 18 Fig. 19

Fig. 20 Fig. 21 Fig. 22 Fig. 23

- Rated voltage: 115/250VAC • Operating frequency: 50/60Hz
- Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC

EMI Power Entry Filter: Maximum leakage current each line to ground:
@ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA

EMI Line Filter: Maximum leakage current each line to ground:
@ 115VAC 60Hz: 0.25mA; 1.0mA (10000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (10000pF)

★ Web Code: ACR

Part No.	Mfr.	Product No.	Description	Fig.	Current (A)	Hipot (VDC)	Terminals	Terminal Size	Agency Approvals	A	B	C	D	1	10	100
1951511	Delta	01GEEG3E (1ED1)†	Power entry filter, straight (screw flanged)	1	1	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	$2.49	$2.25	$1.95
1951529	Delta	01DEEG3V	Power entry filter, rt. angle (screw flanged)	3	1	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	.79	.69	.59
1172613	Tyco	1EGG1-2	Pwr entry filter, straight, fused (screw flanged)	4	1	2250	Faston	0.25"	UL/CSA/VDE	1.62	1.29	1.44	1.27	.79	.69	.59
2189599	Adam Tech	PLF-1DZ2KR	Pwr entry filter, w/ fuse & switch (screw flanged)	2	1	250	Faston	0.25"	UL/CSA/DVE	1.97	2.56	1.58	1.58	9.95	8.95	7.95
107326	Delta	03DEEG3B-R	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	4.95	4.49	3.95
2178523	Schurter	5110.0343.1	Power entry filter, straight (snap-in)	5	3	2250	Faston	0.25"	UL/CUL	1.42	0.91	1.19	0.80	1.95	1.75	1.49
2114116	Adam Tech	PLF-3PC	Line filter, metal case (PC mount)	6	3	250	Solder	0.039"	UL/CSA/VDE	0.984	0.984	0.787	—	5.95	5.39	4.79
2189581	Adam Tech	PLF-3DZ2KR	Pwr entry filter, w/ fuse & switch (screw flanged)	2	3	250	Faston	0.25"	UL/CSA/DVE	1.97	2.56	1.58	1.58	9.95	8.95	7.95
1954720	Delta	04BEEG3S	Power entry filter, straight, fused (screw flanged)	1	4	2250	Faston	0.25"	UL/CSA/VDE	2.26	1.19	1.26	1.40	1.19	.99	.69
1811391	Delta	06A2D	Power entry module (snap-in)	7	4	2250	Faston	0.25"	UL/CSA/VDE	2.65	2.50	1.06	1.11	6.95	6.25	5.59
1951570	Delta	05DRDG3S (5ER7)†	Power entry filter, 6-32 threaded panel mount	9	5	2250	Faston	0.25"	UL/CSA/VDE	3.15	1.97	1.28	1.58	2.95	2.59	2.29
2114124	Adam Tech	PLF-6DZ2KR	Pwr entry filter, strght, fuse & sw. (scrw flngd)	10	6	250	Faston	0.25"	UL/CSA/VDE	1.968	2.559	2.394	1.154	9.95	8.95	7.95
1951588	Delta	06DEEG3V	Power entry filter, right angle (screw flanged)	3	6	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	1.79	1.45	1.25
2197871	Delta	06BENG3G	Power entry filter, male (snap-in)	8	6	2250	Faston	0.32"	UL/CSA/VDE	0.30	1.90	1.10	1.70	8.95	7.95	6.95
1172672	Corcom	IVB3	Line filter (flange mount)	19	10	2250	1.5" Wire	Wire	UL/CSA/VDE	0.96	1.82	0.66	2.53	5.95	4.95	3.95
2178507	ValuePro	6100-4115	AC power inlet, male (snap-in)	15	10	250	Solder	0.14"	UL/CSA/VDE	1.19	0.91	1.06	0.77	.39	.32	.27
117445	ValuePro	0717#	AC power inlet, male w/ fuse chamber (snap-in)	17	10	250	Faston	0.187"	UL/CSA/VDE	1.18	1.30	1.05	1.20	1.95	1.79	1.59
265528	ValuePro	WS-044#	AC power inlet, male w/ fuse chamber (screw)	18	10	250	Faston	0.187"	UL/CSA/VDE	1.40	1.28	1.06	1.21	1.75	1.49	1.25
2197880	Delta	10DRCS5	Power entry filter (flange mount)	20	10	2250	Threadpost	0.164"	UL/CSA/VDE	3.87	1.52	2.94	1.21	7.95	6.95	5.95
2189521	Adam Tech	IEC-GS-1-150	Pwr entry filter, w/ fuse & switch (snap-in)	21	15	250	Faston	0.187"	UL/CSA/DVE	1.20	1.97	1.06	1.83	2.95	2.75	2.49
2189564	Adam Tech	NEMA-5-1-A	AC pwr inlet, NEMA fem, angled GND pin (snap-in)	11	15	125	Faston	0.25"	UL/CSA/DVE	1.06	1.06	0.70	0.85	.89	.79	.65
2189572	Adam Tech	NEMA-5-1-B	AC pwr inlet, NEMA fem, straight GND pin (snap-in)	11	15	125	Faston	0.25"	UL/CSA/DVE	1.06	1.06	0.70	0.85	.99	.85	.69
2114095	Adam Tech	NEMA-5-2*	AC power outlet, NEMA receptacles (snap-in)	11	15	125	Fork	0.25"	UL/CSA/VDE	1.063	1.063	0.70	0.866	.99	.85	.69
147901	ValuePro	701R	AC power inlet, male (screw flanged)	12	15	250	Faston	0.187"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.99	.79
16652	ValuePro	JR101	AC power inlet, male (screw flanged)	12	15	250	Faston	0.25"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.99	.79
2133712	Schurter	VSP1.8101.1	AC pwr inlet, M R/A (screw flanged, PC mount)	13	15	250	Solder	0.05"	UL/CSA/VDE	1.96	1.09	1.09	0.78	.39	.35	.29
2114010	Adam Tech	IEC-A-4	AC pwr inlet, M R/A (screw flanged, PC mount)	13	15	250	Solder	0.071"	UL/CSA/VDE	1.97	0.89	1.06	0.76	.39	.29	.19
2178494	ValuePro	EAC-324	AC power inlet, male, straight (screw flanged)	14	15	250	Solder	0.16"	UL/CSA/VDE	1.96	0.89	1.09	1.09	.49	.45	.39
2178515	ValuePro	EAC-409	AC power inlet, male, snap-in)	15	15	250	Solder	0.16"	UL/CSA/VDE	1.22	0.94	1.06	0.78	.59	.49	.39
147109	ValuePro	42R02	AC power inlet, male (snap-in)	16	15	250	Faston	0.25"	UL/CSA/VDE	1.23	0.95	1.04	0.77	.99	.89	.75
2095525	Adam Tech	IEC-GS-1-100#	AC pwr inlet, male w/ sw. & fuse folder (snap-in)	15	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	0.77	1.83	2.95	2.75	2.49
1954640	ValuePro	K2415	AC power inlet, female (snap-in)	22	15	250	Faston	0.187"	UL/CSA/VDE	1.38	0.98	1.26	1.10	.39	.35	.25
1954658	ValuePro	K2414	AC power inlet, female (screw flanged)	23	15	250	Faston	0.187"	UL/CSA/VDE	1.97	1.14	1.26	0.95	1.75	1.49	1.25
2157546	Adam Tech	IEC-GS-1-200	AC pwr fused inlet, male w/ switch (snap-in)	2	15	250	Faston	0.187"	UL/CSA/VDE	1.07	1.97	1.06	1.83	2.95	2.59	2.39

† High Performance; Increased filtering; Added bleeded resistor; More safety agencies   * For 14-16 AWG wire   # Includes spare fuse holder – fuse type 5mm x 20mm (250V)

JAMECO ValuePro — International Power Cords

- 3-conductor detachable power cords
- Voltage rating: 300V
- Cord color: black
- BSI: British Standard Institution
- Cord type: H05VVF
- P/N 2202298/2202301 with RFI filter

★ Web Code: XAQ

Part No.	Cross Ref. No.	Country	Agency Approvals	Plug Fig.	Cord Length	Conductors	1	10	100
117911	2171H576	Europe	All	1/A	6 ft.	3/0.75mm	$4.95	$4.49	$3.95
2202298	ER71RFI	Europe	All	1/A	10 ft.	3/1.0mm	6.95	6.25	5.59
174633	21071H5182	UK/Ireland	BSI	2/A	8 ft.	3/1.0mm	6.95	6.25	5.59
2202301	2171RFI10	UK/Ireland	BSI	2/A	10 ft.	3/1.0mm	8.95	7.95	6.95

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Fig. 1 (Straight) Fig. A

Fig. 2 (Right Angle, Fused)

European Agency Approvals

Germany	VDE		France	LCIE	
Austria	OVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

Line Cord w/ Pigtail (Fig. 1) w/ Strain Relief (Fig. 1A)

Laptop Power Cord (Fig. 2)

Straight (A) / 45° (B)
AC Plug Fan Power Cord (Fig. 3)

Power Cord w/ Pigtail (Fig. 4)

Detachable Power Cord (Fig. 5)

Computer Power Supply Extension Cord (Fig. 6)

910 Plug
Straight or Right Angle with Pigtail (Fig. 7)

Fig. A   Fig. B
Right Angle Detachable Power Cord (Fig. 8)

Hospital Grade Power Cord (Fig. 9)

Computer Monitor Power Adapter Cord (Fig. 10)

Detachable Power Strip Saver (Fig. 11)

Example (Fig. 11)

22" Overall Length 6" (2)
Power Strip Saver II (Fig. 12)

Example (Fig. 12)

2' (2)
4' Overall Length "Y" Twin End (Fig. 13)

Mickey Mouse™ Style Power Cord (Fig. 14)

Plug Detail – Industry Standard Designations

290B

910

386A/386E

150

2 & 3-Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- Temperature: -20°C to +60°C

★ Web Code: UBF

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

2-Conductor Line Cords with Pigtail

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
124434	ST008	JVP	.16	1	6'	Black	18/2	SPT-2	$2.49	$2.25	$1.95	$1.75
42042	SY-001-R	JVP	.18	1A	6'	Black	18/2	SPT-2	2.95	2.75	2.49	2.25

2-Conductor "8" Style Power Cords for Laptops and Power Supplies

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
2151195	123855-1	JVP	.15	2	3'	Black	18/2	SPT-2	$1.25	$1.09	$.95	$.85
189587	VW-1	JVP	.30	2	6'	Black	18/2	SPT-2	2.95	2.69	2.39	2.19

2-Conductor AC Plug Fan Power Cords

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
1952572	FACS	JVP	.40	3A	6'	Black	18/2	SPT-2	$3.95	$3.59	$3.19	$2.49
1952581	FAC45	JVP	.40	3B	6'	Black	18/2	SPT-2	4.95	4.59	3.95	3.49

3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
38009	17237	JVP	.31	4	6'	Gray	18/3	SVT	$3.79	$3.39	$2.95	$2.79
2158258	17236SR#	JVP	.35	4	6'	Black	18/3	SVT	3.95	3.59	3.25	2.75
37997	17236	JVP	.30	4	6'	Black	18/3	SVT	4.95	4.49	3.95	3.59
173810	17405	JVP	.14	4	6'	Gray	18/3	SJT	4.95	4.49	3.95	3.59
159410	17405B	JVP	.37	4	6'	Black	18/3	SJT	4.95	4.49	3.95	3.59
38025	17238	JVP	.42	4	8'	Black	18/3	SVT	5.95	5.49	4.95	4.49
102007	17535B†	JVP	.49	4	10'	Black	18/3	SVT	6.95	6.25	5.95	5.59
196286	LL40378	JVP	.80	4	10'	Black	16/3	SJT	7.95	6.95	5.95	4.95
2217908	00960018	JVP	.41	4	6'	Black	14/3	SJT	9.95	8.95	7.95	6.95
100272	17629B	JVP	.88	4	9'	Black	14/3	SJT	9.95	8.95	7.95	6.95

3-Conductor Detachable Power Cords (Unshielded) 290B/386A Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
2081801	17002A	JVP	.36	5	1'	Black	18/3	SVT	$2.95	$2.65	$2.39	$1.95
2172834	LL11094B	JVP	.16	5	1.5'	Black	18/3	SVT	2.49	1.95	1.75	1.59
2082425	17000A	JVP	.35	5	3'	Black	18/3	SVT	3.25	2.95	2.59	2.29
38041	17249	JVP	.37	5	6'	Beige	18/3	SVT	3.49	2.95	2.49	1.95
2202280	17250RFI§	JVP	.36	5	6'	Black	18/3	SVT	3.95	3.59	3.29	2.95
38050	17250	JVP	.36	5	6'	Black	18/3	SVT	4.95	4.49	3.95	3.59
132118	17500	JVP	.44	5	6'	Black	18/3	SJT	4.95	4.49	3.95	3.25
1585637	171096	JVP	.60	5	8'	Black	18/3	SJT	4.95	4.49	3.95	3.59
2202271	17501RFI§	JVP	.55	5	10'	Black	18/3	SVT	4.95	4.49	3.95	3.59
102024	17501V	JVP	.55	5	10'	Black	18/3	SVT	6.95	6.25	5.95	5.49
163361	6952299	JVP	.75	5	14'	Black	18/3	SJT	7.95	6.95	6.25	5.59
2145051	177323	JVP	.70	5	15'	Black	18/3	SVT	4.95	3.95	3.49	2.95
2188650	LL81924	JVP	.72	5	8'	Gray	18/3	SJT	3.95	3.59	3.29	2.95
2126053	LL76932§	JVP	.52	5	6'	Black	16/3	SJT	3.95	2.95	2.49	1.95
159361	17602	JVP	.52	5	6'	Black	16/3	SJT	6.95	5.95	5.35	4.79
1537230	LL34877	JVP	.72	5	8'	Black	16/3	SJT	7.95	6.95	6.25	5.59
125541	17504	JVP	.72	5	6'7"	Black	14/3	SJT	7.95	7.19	6.49	5.79
2172981	1181924	JVP	.95	5	10'	Black	14/3	SJT	8.95	7.95	6.95	5.95

#.55" x .62" strain relief   †European standard insulation color code   §RFI filter on cord

3-Conductor Detachable Power Cords (Shielded) 290B/386A Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
213874	17660BG	JVP	.40	5	6'	Beige	18/3	SVT	$3.95	$3.49	$2.95	$2.49
161761	17742	JVP	.40	5	6'	Black	18/3	SVT	4.49	3.95	3.59	2.95

3-Conductor Computer Power Supply Extension Cords (150/386A/910 Plugs)

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
206172	PEC-3	JVP	.22	6	3'	Black	18/3	SVT	$2.49	$1.95	$1.75	$1.49
319804	LR94903	JVP	.82	6	6'	Gray	18/3	SVT	1.75	1.59	1.35	1.09
28468	PEC	JVP	.36	6	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
2133595	PEC-SJT	JVP	.36	6	6'	Black	18/3	SJT	3.95	3.59	3.29	2.95
420224	10W1-02212	JVP	.53	6	12'	Black	18/3	SVT	5.95	5.39	4.79	4.25

3-Conductor Power Cord with Pigtail (Shielded) 910 Plug

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
339995	72WV866SSDI	JVP	.49	7	6'7"	Black	18/3	SVT	$1.49	$1.25	$1.09	$.95

3-Conductor Right Angle Detachable Power Cords (Unshielded) 290B/910 Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
117357	8120-6177	JVP	.41	8B	6'	Gray	18/3	SVT	$3.95	$3.55	$3.19	$2.79
38077	17250R	JVP	.54	8B	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
2099999	E88265	JVP	.82	8A	8'	Black	18/3	SVT	1.95	1.75	1.49	1.09
177384	17507	JVP	.28	8B	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49

3-Conductor Right Angle Detachable Power Cord (Shielded) 290B/910 Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
173252	17745	JVP	.16	8B	6'7"	Black	18/3	SVT	$5.95	$5.39	$4.79	$4.25

3-Conductor Hospital Grade Power Cords (green dot)

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
2115434	LL39965	JVP	.75	9	10'	Gray	18/3	SJT	$4.95	$4.49	$3.95	$3.59
132011	17006G	JVP	.82	9	10'	Gray	16/3	SJT	10.95	9.95	8.95	7.95

3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
177448	MPC1	JVP	.16	10	1'	Black	18/3	SVT	$2.95	$2.69	$2.39	$2.19

3-Conductor Detachable Power Cords (Power Strip Saver) 290B/386 Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
208339	P55-BR	JVP	.16	11	1'	Beige	18/3	SVT	$1.95	$1.75	$1.49	$1.25
199778	PSS-1	JVP	.16	11	1'	Black	18/3	SVT	2.95	2.69	2.39	2.15

3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
208347	121-2594	ZTK	.38	12	22"	Black	16/3	SJT	$8.95	$7.95	$7.49	$6.95

3-Conductor Power Cord ("Y" Twin End) 150/386 (2) Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
340566	17268A	JVP	.32	13	4'	Black	18/3	SJT	$6.95	$6.25	$5.59	$4.95

3-Conductor "Mickey Mouse" Style Power Supply Cords (2 Prong Plug w/ Ground)

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	1	10	50	100
2201560	CMC105	JVP	.40	14	6'	Black	18/3	VCTP	$1.95	$1.75	$1.49	$1.25
1953559	MMFLAT	MWL	.40	14	6'	Black	18/3	SPT-2	2.59	2.25	1.95	1.59
1951123	MMPC	MWL	.40	14	6'	Black	18/3	SVT	2.95	2.59	2.29	1.95

*Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

*JVP = Jameco ValuePro | MWL = Mean Well | SLA = Sola | ZTK = Ziotek

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NFM-15   EPS-25

Part No.	Manufacturer	Mfr. Part No.	Output Voltage @ Current (min-max)	Power	Input (VAC @ Hz)	Size (L"xW"xH)	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%) §	Certification	Pricing 1	10
						Single Output								
694971	Mean Well	NFM-05-5	+5V @ 0-1A	5W	85-264 @ 47-440	2.3x1.8x0.8	4-pin PCB	80	1.5	1.0	71	UL/CUL/TUV/CE	$9.49	$8.49
2188692	TDK-Lambda	ZWS5-5	+5V @ 0-1A	5W	85-265 @ 47-440	3.8x1.8x0.8	3.6x1.5x0.1	120	2.0	1.0	67	UL/CSA/TUV/CE	8.95	7.95
695092	Mean Well	NFM-10-5	+5V @ 0-2A	10W	85-264 @ 47-440	2.6x1.8x0.9	4-pin PCB	80	1.0	1.0	74	EN/IEC/TU/UL	10.49	9.49
229042	Phihong	PSA15LN3-050	+5V @ 0-3A	15W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	50	2.0	1.0	65	UL/CUL/TUV/CE	18.95	17.25
2174071	Mean Well	EPS-15-5	+5V @ 0-3.3A	15W	85-264 @ 47-63	2.5x1.8x0.94	2.25x1.54x0.13	50	1.0	0.5	78	UL/CUL/TUV/CB/CCE	7.95	7.25
2210722	Phihong	PSA25-105	+5V @ 0-4A	20W	100-240 @ 47-63	4.0x3.0x1.3	3.6x2.6x0.16	50	2.0	1.0	70	UL/CSA/VDE	10.95	9.95
2164316	Mean Well	EPS-25-5	+5V @ 0-5A	25W	85-264 @ 47-63	3.0x2.0x0.9	2.0x1.75x0.125	60	1.0	0.5	81	UL/TUV/EN	11.95	10.49
212354	Mean Well	PS-25-5	+5V @ 0-5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	80	2.0	0.5	74	UL/CUL/TUV/CE	11.95	10.49
217332	Mean Well	PS-45-5	+5V @ 0-8A	40W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	74	UL/CUL/TUV/CE	12.49	11.49
2164498	Mean Well	EPS-45-5	+5V @ 0-8A	45W	90-264 @ 47-63	4.0x2.0x1.1	2.0x1.75x0.125	80	2.0	0.5	82	UL/TUV/EN	13.49	12.49
2106327	Mean Well†	RPS-160-5	+5V @ 0-20A	103W	90-264 @ 47-63	5.0x3.0x1.4	3.0x2.6x0.137	100	1.0	0.5	85	EN/TU/UL	49.95	44.95
392826	Mean Well	PS-25-7.5	+7.5V @ 0-3.3A	24.8W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.14	80	2.0	0.5	76	UL/TUV/EN	11.95	10.49
2164324	Mean Well	EPS-25-7.5	+7.5V @ 0-3.4A	25W	85-264 @ 47-63	3.0x2.0x0.9	2.0x1.75x0.125	80	1.0	0.5	83	UL/TUV/EN	11.95	10.95
2210749	Phihong	PSA15LN3-090	+9V @ 0-1.6A	15W	100-240 @ 50-60	4.3x1.5x1.0	4.0x1.2x0.15	90	2.0	1.0	65	CUL/CE/TUV	11.95	10.95
2188772	UMEC	UP0401S-09	+9V @ 0-4.4A	40W	90-264 @ 47-63	4.0x3.0x1.0	3.6x2.6x0.2	100	1.0	1.0	70	UL/CSA/TUV	12.95	11.49
695156	Mean Well	NFM-15-12	+12V @ 0-1.25A	15W	85-264 @ 47-440	2.8x1.9x0.9	4-pin PCB	150	0.5	0.5	78	EN/ICE/TU/UL	11.95	10.49
2105666	Mean Well	PS-15-12	+12V @ 0-1.25A	15W	85-264 @ 47-63	3.7x1.9x1.0	3.4x1.9x0.1	150	0.5	0.5	77	CB/CE	7.95	6.95
148604	Mean Well	PS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	78	UL/CUL/TUV/CE	11.95	10.49
2164332	Mean Well	EPS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	3.0x2.0x0.9	2.0x1.75x0.125	100	0.5	0.5	86	UL/TUV/EN	11.95	10.95
220987	Mean Well	MPS-30-12	+12V @ 0-2.5A	30W	88-264 @ 47-63	4.0x2.6x0.9	2.7x2.4x0.125	120	1.0	1.0	75	UL/TUV/IEC	19.95	17.95
2164421	Mean Well	EPS-35-12	+12V @ 0-3.3A	36W	85-264 @ 47-63	3.0x2.0x0.9	2.8x1.75x0.1	100	0.5	0.5	87	UL/TUV/EN	12.49	11.49
213728	Mean Well	PS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	76	UL/CUL/TUV/CE	12.49	11.49
2164594	Mean Well	EPS-45-12-C	+12V @ 0-4.2A	45W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	120	1.0	0.5	87	UL/TUV/EN	16.49	14.95
2164519	Mean Well	EPS-45-12	+12V @ 0-4.2A	45W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	120	1.0	0.5	87	UL/TUV/EN	13.95	12.49
252401	Mean Well	LPS-50-12	+12V @ 0-4.2A	50.4W	90-264 @ 47-63	7.6x2.1x0.9	7.3x1.7x0.1	80	2.0	1.0	82	UL/CUL/TUV/CE	13.95	12.49
2205413	Astrodyne**	ASM60-1380	+12V @ 0-5A	60W	100-240 @ 50-60	4.0x2.0x1.7	3.7x1.7x0.1	100	3.0	1.0	84	UL/CUL/TUV/CE	9.95	8.95
148639	Mean Well	PS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	79	UL/CUL/TUV/CE	13.95	12.95
2099981	ITE	SBU60-105	+12V @ 0-5.25A	63W	90-264 @ 47-63	5.0x3.0x1.1	4.6x2.6x0.15	120	3.0	0.5	80	UL/CUL/CE	8.95	7.95
2106335	Mean Well†	RPS-60-12	+12V @ 0-5.5A	66W	90-264@47-63	4.0x2.0x1.1	2.0x1.75x0.129	120	1.0	0.5	83	EN/IEC/TU/UL	15.95	14.49
2164674	Mean Well	EPS-65-12	+12V @ 0-6A	65.04W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	120	1.0	0.5	86	UL/TUV/EN	13.95	12.49
2164754	Mean Well	EPS-65-12-C	+12V @ 0-6A	72W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	120	1.0	0.5	86	UL/TUV/EN	17.95	16.49
2172391	Mean Well†	EPP-100-12	+12V @ 0-6.3A	75.6W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	130	1.0	0.5	91	UL/TUV/EN	39.95	35.95
173472	Mean Well	LPS-100-12	+12V @ 0-8.4A	100.8W	88-132@47-63	8.7x2.4x1.3	2.4x2.0x0.137	100	1.5	0.5	79	UL/CUL/TUV/CE	27.95	25.95
374089	Mean Well†	PPS-125-12	+12V @ 0-8.5A	102W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	80	UL/CUL/TUV/CE	42.95	38.95
213681	Mean Well†	LPP-150-12	+12V @ 0-12.5A	100.8W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.15	100	1.0	0.5	79	UL/CUL/TUV/CE	34.95	31.95
2172447	Mean Well†	EPP-150-12	+12V @ 0-12.5A	100.8W	90-264 @ 47-63	4.0x2.0x1.0	2.0x1.75x0.129	130	1.0	0.5	91.5	UL/TUV/EN	49.95	44.95
2149431	Mean Well†	USP-150-12	+12V @ 0-12.5A	150W	90-295 @ 47-63	8.5x2.7x1.3	8.3x2.1x0.13	150	1.0	0.5	91.5	IEC/EN/UL	50.95	45.95
668713	Mean Well†	PPS-200-12	+12V @ 0-16.6A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	89	UL/CUL/TUV/CE	54.95	49.95
2172324	Mean Well†	MSP-200-12	+12V @ 0-16.7A	200.4W	85-264 @ 47-63	7.8x3.9x1.5	3.8x3.3x0.137	120	0.5	0.3	88	ANSI/AAMI/IEC	89.95	79.95
2164252	Mean Well†	EPP-300-12	+12V @ 0-25A	300W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.13	120	1.0	0.5	90	UL/TUV/EN	64.95	58.95
374380	Mean Well	PS-65-13.5	+13.5V @ 0-5.4A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.16	100	2.0	1.0	79	UL/CUL/TUV/CE/CB	12.95	11.95
695164	Mean Well	NFM-15-15	+15V @ 0-1A	15W	85-264 @ 47-440	2.8x1.9x0.9	4-pin PCB	150	0.5	0.5	79	EN/IEC/TU/UL	11.49	10.49
2210731	Phihong	PSA25-115	+15V @ 0-1.6A	24W	100-240 @ 47-63	4.0x3.0x1.3	3.6x2.6x0.16	150	2.0	1.0	70	UL/CSA/VDE	10.95	9.95
216769	Mean Well	PS-25-15	+15V @ 0-1.7A	25.5W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	78	UL/CUL/TUV/CE	10.95	9.95
2164341	Mean Well	EPS-25-15	+15V @ 0-1.7A	25.5W	85-264 @ 47-63	3.0x2.0x0.9	2.0x1.75x0.125	100	0.5	0.5	87	UL/TUV/EN	11.95	10.95
1919019	Mean Well	PS-35-15	+15V @ 0-2.4A	36W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	150	0.5	0.5	81	UL/CUL/TUV/CE/CB	12.49	11.49
216751	Mean Well	PS-65-15	+15V @ 0-4.2A	63W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	79	UL/CUL/TUV/CE	13.95	12.95
216670	Mean Well†	LPP-100-15	+15V @ 0-6.7A	100W	85-264 @ 47-63	8.7x2.4x1.3	8.3x2.0x0.14	100	0.5	0.5	80	UL/CUL/TUV/CE	24.95	22.49
2122491	Mean Well†	PLP-20-24	+24V @ 0-0.8A	19.2W	90-277 @ 47-63	5.5x1.3x0.8	5.2x1.0x0.1	300	10.0	3.0	82	UL/CUL/TUV/CE	10.95	9.95
212346	Mean Well	PS-25-24	+24V @ 0-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	240	2.0	0.2	74	UL/CUL/TUV/CE	11.95	10.49
2164359	Mean Well	EPS-25-24	+24V @ 0-1.05A	25.2W	85-264 @ 47-63	3.0x2.0x.9.0	2.75x1.75x0.13	180	0.5	0.5	88	UL/CUL/CE/CB	11.95	10.95
2164771	Mean Well	EPS-65-24-C	+24V @ 0-3A	72W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	240	1.0	0.5	88	UL/TUV/EN	17.95	16.49
2164471	Mean Well	EPS-35-48	+48V @ 0-.75A	36W	85-264 @ 47-63	3.0x2.0x.9.0	2.75x1.75x0.13	240	0.5	0.5	90	UL/TUV/EN	12.49	11.49

* Primary output   ****** Medical rated   **§** Efficiency

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PPS-125   LPP-150

Part No.	Manufacturer	Mfr. Part No.	Output Voltage @ Current (min-max)	Power	Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%) §	Certification	Pricing 1	Pricing 10
					Single Output (Continued)									
1919035	Mean Well	PS-35-24	+24V @ 0-1.5A	36W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	240	2.0	0.2	85	UL/CUL/TUV/CE	$12.49	$11.49
213720	Mean Well	PS-45-24	+24V @ 0-1.9A	45.6W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	200	0.5	0.5	78	UL/CUL/TUV/CE/CB	12.49	11.49
2164615	Mean Well	EPS-45-24-C	+24V @ 0-2.1A	45.6W	90-264 @ 47-63	4x2x1.1	3.75x1.75x0.13	150	1	0.5	89	UL/TUV/EN	16.49	14.95
148647	Mean Well	PS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	80	UL/CUL/TUV/CE	13.95	12.95
2164691	Mean Well	EPS-65-24	+24V @ 0-3A	65.04W	90-264 @ 47-63	4.0x2.0x1.1	3.75x1.75x0.13	240	1.0	0.5	88	UL/TUV/EN	13.95	12.49
173463	Mean Well†	LPS-100-24	+24V @ 0-4.2A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	80	UL/CUL/TUV/CE	27.95	25.95
2129684	Elpac**	MSM7524	+24V @ 0-4.6A	110W	100-240 @ 50-60	5.7x3.4x1.6	5.2x3.4x1.5	240	3.0	1.0	80	UL/CUL/CE	12.95	11.95
2172412	Mean Well†	EPP-100-24	+24V @ 0-4.2A	100.8W	90-264 @ 47-63	4.0x2.0x1.1	2x1.75x0.129	240	1.0	0.5	92	UL/TUV/EN	39.95	35.95
301429	Mean Well†	PPS-125-24	+24V @ 0-5.2A	124.8W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	150	1.0	0.5	83	UL/CUL/TUV/CE	42.95	38.95
2172463	Mean Well†	EPP-150-24	+24V @ 0-6.25A	150W	90-264 @ 47-63	4.0x2.0 x 1.1	2x1.75x0.129	240	1.0	0.5	93	UL/TUV/EN	49.95	44.95
213672	Mean Well†	LPP-150-24	+24V @ 0-6.25A	150W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	150	0.5	0.5	83	UL/CUL/TUV/CE	34.95	31.95
2149458	Mean Well†	USP-150-24	+24V @ 0-6.3A	150W	90-295 @ 47-63	8.5x2.7x1.3	8.3x2.1x0.13	150	1	0.5	93	IEC/EN/UL	50.95	45.95
1773419	Astec†	LPS175	+24V @ 0-7.5AA	175W	85-264 @ 47-63	8.5x4.2x1.5	7.4x2.5x0.1	150	2.0	1.0	75	UL/CSA/CE	54.95	49.95
668730	Mean Well†	PPS-200-24	+24V @ 0-8.3A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	3.7x7.8x0.14	150	1.0	0.5	89	UL/CUL/TUV/CE	54.95	49.95
2164279	Mean Well†	EPP-300-24	+24V @ 0-12.5A	200W	90-264 @47-63	5.0x3.0x1.4	3.0x2.6x0.137	150	1.0	0.5	92.5	UL/TUV/EN	64.95	58.95
236882	Mean Well	LPP-100-27	+27V @ 0-3.8A	102.6W	85-264 @ 47-63	8.7x2.4x1.3	8.4x2.4x1.3	150	0.5	0.5	83	UL/CUL/TUV/CE	14.95	—
2164551	Mean Well	EPS-45-48	+48V @ 0-1.1A	48W	90-264 @ 47-63	4x2x1.1	3.75x1.75x0.13	300	1	0.5	90	UL/TUV/EN	13.49	12.49
2164631	Mean Well	EPS-45-48-C	+48V @ 0-1.1A	52.8W	90-264 @ 47-63	4x2x1.1	3.75x1.75x0.13	300	1	0.5	90	UL/TUV/EN	16.49	14.95
2164711	Mean Well	EPS-65-48	+48V @ 0-1.36A	65W	90-264 @ 47-63	4x2x1.1	3.75x1.75x0.13	300	1	0.5	90	UL/TUV/EN	13.95	12.49
201954	Mean Well	PS-65-48	+48V @ 0-1.5A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.16	100	2.0	1.0	80	UL/CUL/TUV/CE/CB	13.49	12.49
2172439	Mean Well†	EPP-100-48	+48V @ 0-1.6A	76.8W	90-264 @ 47-63	4x2x1.1	3.75x1.75x0.13	300	1	0.5	92.5	UL/TUV/EN	39.95	35.95
2172480	Mean Well†	EPP-150-48	+48V @ 0-2.1A	100.8W	90-264 @ 47-63	4x2x1.1	3.75x1.75x0.13	300	1	0.5	92	UL/TUV/EN	49.95	44.95
2149474	Mean Well†	USP-150-48	+48V @ 0-3.2A	150W	90-295 @ 47-63	8.5x2.7x1.3	8.3x2.1x0.13	250	1	0.5	93	IEC/EN/UL	50.95	45.95
2164295	Mean Well†	EPP-300-48	+48V @ 0-6.25A	300W	90-264 @ 47-63	5x3x1.4	4.6x2.6x0.13	250	1	0.5	93	UL/TUV/EN	64.95	58.95
					Double Output									
2188617	Powdec	CML0522	+5V @ 0-1.5A; +12V @ 0-0.6A	15W	100-240 @ 50-60	3.5x2.3x1.1	3.1x2.0x0.1	50	4.0	2.0	65	UL/CSA/TUV/CE	9.95	8.95
212338	Mean Well	PD-25A	+5V @ 0.2-2.5A; +12V @ 0.1-1.5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50;150	1.0	0.5	71	UL/CUL/TUV/CE	13.95	12.49
212330	Mean Well	PD-25B	+5V @ 0.2-2A; +24V @ 0.1-1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50;200	1.0	0.5	77	UL/CUL/TUV/CE	13.95	12.49
2215697	Artesyn	NLP40-7629J	+5V @ 4A; +12V @ 0-2A	40W	90-264 @ 47-63	4.2x2.5x1.1	4.0x2.2x0.1	50;120	3.0	1.0	75	UL/CSA/CE	12.95	11.95
194862	Mean Well	PD-45A	+5V @ 0.4-3.2A; +12V @ 0.2-2	40W	90-264 @ 47-440	5.0x2.5x1.5	4.5x2.5x0.2	50;120	3.0	1.0	77	UL/CSA	14.95	13.49
2197741	Skynet	SNP-N563	+5V @ 1.0-8A; +3.3V @ 0.5-6A	60W	85-264 @ 47-63	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	70	UL	11.95	10.95
194889	Mean Well	PD-65A	+5V @ 0.4-7A; +12V @ 0.2-3.2A	61.1W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50;120	3.0	1.0	78	UL/CUL/TUV/CE	14.49	13.49
692377	Autec	UPS65-1002	+5V @ 0.5-3.5A; +12V @ 0.1-4A	65W	90-260 @ 47-63	6.0x3.5x1.5	4.8x3.2x0.2	50	2.0	0.5	65	UL/CSA/TUV	13.95	11.95
194897	Mean Well	PD-65B	+5V @ 0.4-3.5A; +24V @ 0.2-2A	65.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50;150	3.0	1.0	81	UL/CUL/TUV/CE	14.49	13.49
148690	Mean Well	PD-2512	+12V @ 0.1-1.2A; -12V @ 0.1-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	74	UL/CUL/TUV/CE	13.95	12.49
2100857	Mean Well	PD-25-15	+15V @ 0-1A, -5V @ 0-1A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	75	UL/CUL/TUV/CE	13.95	12.49
					Triple Output									
2129676	Elpac**	MSM40D	+5.1V @ 0-4A; +24V @ 0-1A; -12V @ 0.4A	40W	100-240 @ 50-60	5.0x3.0x1.1	4.6x2.5x0.2	50	5.0	1.0	70	UL/CUL/CSA/CE	9.95	8.95
2210757	Phihong	PSS-40-304	+5V @ 0-4.5A; +15V @ 0-2A; -15V @ 0.5A	40W	100-240 @ 50-60	4.2x2.5x1.2	4.0x2.2x0.1	50; 150;150	3.0	3.0	70	CUL/CE/NEMKO	16.95	15.49
229122	Phihong	PSA4531	+5V @ 0-4A; +12V @ 0-1.5A; -12V @ 0-0.5A	44W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.2	50; 120;120	2.0	1.0	70	UL/CSA/TUV/CE	35.95	33.95
88402	Mean Well	PT-45B	+5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A	45W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50; 120;100	3.0	1.0	75	UL/CUL/TUV/CE	16.95	14.95
2106108	Mean Well	PT-65A	+5V @ 0-5.5A; 12V @ 2.5A; -5V @ 0.5A	60W	90-264 @ 47-440	5.0x3.0x1.7	2.9x2.5x0.149	50;120;50	3;4;1	1;2;1	76	EN/TUV/UL	15.95	14.49
216734	Mean Well	PT-65B	+5V @ 0.4-5.5A; +12V @ 0.2-2.5A -12V @ 0-0.5A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50; 120;100	3.0	1.0	77	UL/CUL/TUV/CE	15.95	14.49
216726	Mean Well	PT-65C	+5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A	65W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50; 120;100	3.0	1.0	77	UL/CUL/TUV/CE	15.95	14.49
215707	Mean Well	PT-65D	+5V @ 0.5-5A; +12V @ 0.2-4A; +24V @ 0.2-1.3A	68W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50; 100;200	2.0	1.0	79	UL/CUL/TUV/CE	15.95	14.49

*Primary output   **Medical rated   § Efficiency

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SP-150   HRPG-150   HRP-300   RSP-1500   NES-75   SE-600

Part No.	Manufacturer	Mfr. Part No.	Output Voltage @ Current (min-max)	Power	Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%)§	PFC	Certification	Pricing 1	Pricing 10
			Single Output										
2106685	Mean Well	RS-15-3.3	+3.3V @ 0-3A	9.9W	2.5 x 2.0 x 1.1	80	2.0	0.5	72	—	UL/CUL/TUV/CE/CB	$8.95	$7.95
693193	Mean Well	RS-25-3.3	+3.3V @ 0-6A	19.8W	3.0 x 2.0 x 1.1	80	2.0	0.5	72	—	UL/CUL/TUV/CE/CB	11.49	10.49
1954906	Mean Well**	PM-05-5	+5V @ 0-1A	5W	2.5 x 2.0 x 0.8	80	1.0	1.0	71	—	EN/IEC/TUV/UL	10.49	9.49
1919043	Mean Well	RS-15-5	+5V @ 0-3A	15W	2.5 x 2.0 x 1.1	80	1.5	0.5	77	—	UL/CUL/TUV/CE/CB	8.95	7.95
323282	Mean Well	RS-25-5	+5V @ 0-5A	25W	3.1 x 2.0 x 1.1	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	11.49	10.49
123290	Mean Well	S-40-5	+5V @ 0-8A	40W	5.1 x 3.9 x 1.5	75	1.0	0.5	72	—	UL/CUL/TUV/CE/CB	21.95	19.95
323388	Mean Well	RS-50-5	+5V @ 0-10A	50W	3.9 x 3.8 x 1.4	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	13.95	12.95
323708	Mean Well	RS-100-5	+5V @ 0-16A	80W	6.3 x 3.8 x 1.5	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	22.95	20.95
194791	Mean Well	SP-100-5	+5V @ 0-20A	100W	7.0 x 3.9 x 1.8	100	1.0	0.5	76	✔	UL/CUL/TUV/CE/CB	39.95	35.95
323821	Mean Well	RS-150-5	+5V @ 0-26A	130W	7.8 x 3.9 x 1.5	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	23.95	21.95
123394	Mean Well	S-150-5	+5V @ 0-30A	150W	7.0 x 4.3 x 2.0	150	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	34.95	31.95
201912	Mean Well	SP-150-5	+5V @ 0-30A	150W	7.0 x 3.9 x 2.0	100	1.0	0.5	75	✔	UL/CUL/TUV/CE/CB	42.95	38.95
202042	Mean Well	SP-200-5	+5V @ 0-40A	200W	7.0 x 3.9 x 2.0	100	1.0	0.5	71	✔	UL/CUL/TUV/CE/CB	49.95	44.95
244735	Mean Well	SP-320-5	+5V @ 0-55A at 230VAC; 0-44A at 115VAC	275W	8.5 x 4.5 x 2.0	150	1.0	0.5	79	✔	UL/CUL/TUV/CB/CE	61.95	55.95
2172068	Mean Well	RSP-320-5	+5V @ 0-60A	300W	8.5 x 4.5 x 1.2	150	1.0	0.5	85	✔	UL/CUL/TUV/CB/CE	69.95	63.95
2149562	Mean Well	SE-350-5	+5V @ 0-60A	300W	8.5 x 4.5 x 2.0	150	2.0	0.5	78	—	UL/CUL	43.95	39.95
693644	Mean Well	SP-480-5	+5V @ 0-85A	425W	10.9 x 5.0 x 1.7	80	1.0	0.5	79	✔	UL/CUL/TUV/CE/CB	134.95	119.95
374002	Mean Well	SE-600-5	+5V @ 0-100A	500W	9.7 x 5.0 x 2.5	150	2.0	0.5	78	—	UL/CUL	84.95	77.95
693661	Mean Well	SP-750-5	+5V @ 0-120A	600W	10.9 x 5.0 x 2.5	120	2.0	0.5	80	✔	UL/CUL/TUV/CE/CB	199.95	179.95
394215	Mean Well	SP-320-7.5	+7.5V @ 0-40A	300W	8.5 x 4.5 x 2.0	150	1.0	0.5	83	✔	UL/CUL/TUV/CE/CB	61.95	55.95
2193141	Mean Well	IRM-05-12	+12V @ 0-0.42A	5.04W	1.8 x 1.0 x 0.85	200	0.5	0.3	75	—	UL/CUL/TUV/CB/CE	7.49	6.75
1954551	Mean Well**	PM-10-12	+12V @ 0-0.85A	10.2W	2.8 x 2.0 x 0.9	150	1.0	0.5	78	—	EN/IEC/TUV/UL	11.95	10.95
1919051	Mean Well	RS-15-12	+12V @ 0-1.3A	15.6W	2.5 x 2.0 x 1.1	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	8.95	7.95
323300	Mean Well	RS-25-12	+12V @ 0-2.1A	25.2W	3.0 x 2.0 x 1.1	120	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	11.49	10.49
123255	Mean Well	S-25-12	+12V @ 0-2.1A	25.2W	3.9 x 3.8 x 1.4	100	0.5	0.5	76	—	UL/TUV/CE	18.95	16.95
323337	Mean Well	RS-35-12	+12V @ 0-3A	36W	3.9 x 3.2 x 1.4	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	12.49	11.49
123298	Mean Well	S-40-12	+12V @ 0-3.5A	42W	5.1 x 3.9 x 1.5	100	0.5	0.5	76	—	UL/CUL/TUV/CE/CB	21.95	19.95
323396	Mean Well	RS-50-12	+12V @ 0-4.2A	50.4W	3.9 x 3.8 x 1.4	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	13.95	12.95
123335	Mean Well	S-60-12	+12V @ 0-5A	60W	6.3 x 3.8 x 1.5	120	0.5	0.5	76	—	UL/CUL/TUV/CE/CB	24.95	22.49
323599	Mean Well	RS-75-12	+12V @ 0-6A	72W	5.1 x 3.9 x 1.5	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	16.95	15.49
194838	Mean Well	SP-75-12	+12V @ 0-6.3A	75.6W	7.0 x 3.9 x 1.3	80	0.5	0.5	77	✔	UL/CUL/TUV/CE/CB	32.95	29.95
2105017	Mean Well	NES-100-12	+12V @ 0-8.5A	102W	6.3 x 3.8 x 1.5	120	0.5	0.5	83	—	UL/CUL/CE/CB	21.95	19.49
123386	Mean Well	S-100F-12	+12V @ 0-8.5A	102W	7.8 x 3.9 x 1.5	125	0.5	0.5	80	—	UL/TUV/CE/CB	29.95	27.95
323716	Mean Well	RS-100-12	+12V @ 0-8.5A	102W	6.3 x 3.8 x 1.5	120	0.5	0.5	81	✔	UL/CUL/TUV/CE/CB	22.95	20.95
194803	Mean Well	SP-100-12	+12V @ 0-8.5A	102W	7.0 x 3.9 x 1.8	100	0.5	0.5	80	✔	UL/CUL/TUV/CE/CB	39.95	35.95
2172244	Mean Well**	MSP-100-12	+12V @ 0-8.5A	102W	6.3 x 3.8 x 1.5	120	0.8	0.3	87.5	✔	ANSI/AAMI/IEC	55.95	49.95
123423	Mean Well	S-150-12	+12V @ 0-12.5A	150W	7.0 x 4.3 x 2.0	180	0.3	0.3	82	—	UL/CUL/TUV/CE/CB	34.95	31.95
323839	Mean Well	RS-150-12	+12V @ 0-12.5A	150W	7.8 x 3.9 x 1.5	120	0.5	0.5	83	—	UL/CUL/TUV/CE/CB	23.95	21.95
2189118	Mean Well	RSP-150-12	+12V @ 0-12.5A	150W	7.8 x 3.9 x 1.2	100	0.5	0.5	90	✔	UL/CUL/CE	49.95	44.95
173421	Mean Well	SP-150-12	+12V @ 0-12.5A	150W	7.0 x 3.9 x 2.0	100	0.5	0.5	80	✔	UL/CUL/TUV/CE/CB	42.95	38.95
2138839	Globe Tek	SP-200-12GL(R)	+12V @ 0-16.7A	200.4W	7.8 x 3.9 x 2.0	100	1.0	0.5	79	✔	UL/CUL/TUV/CE	19.95	17.95
194774	Mean Well	SP-200-12	+12V @ 0-16.7A	200.4W	7.0 x 3.9 x 2.0	100	0.5	0.5	79	✔	UL/CUL/TUV/CE/CB	49.95	44.95
2101497	Mean Well	SP-240-12	+12V @ 0-20A	240W	7.5 x 3.7 x 2.0	150	0.5	0.3	86	✔	UL/CUL/TUV/CE/CB	49.95	44.95
2122706	Mean Well	SPV-300-12	+12V @ 0-25A	300W	8.5 x 4.5 x 1.9	150	0.5	0.3	83.5	—	EN/TUV/UL	99.95	89.95
207204	Mean Well	S-320-12	+12V @ 0-25A	300W	8.5 x 4.5 x 2.0	150	0.5	0.5	82	—	UL/CUL	59.95	54.95
244743	Mean Well	SP-320-12	+12V @ 0-25A at 230VAC; 0-20A @ 115VAC	300W	8.5 x 4.5 x 2.0	150	0.5	0.3	86	✔	UL/CUL/TUV/CE/CB	61.95	55.95
2102203	Mean Well	HRP-300-12	+12V @ 0-27A	324W	7.8 x 4.1 x 1.6	120	0.5	0.3	88	✔	UL/CUL/TUV/CE/CB	76.95	69.95
2094872	Mean Well	HRPG-300-12	+12V @ 0-27A	324W	7.8 x 4.1 x 1.6	120	0.5	0.3	88	✔	UL/CUL/TUV/CE/CB	89.95	79.95
2166039	Mean Well**	MSP-300-12	+12V @ 0-27A	324W	7.8 x 4.1 x 1.6	120	0.5	0.3	88	✔	ANSI/AAMI/IEC	104.95	94.95
2149503	Mean Well	SE-350-12	+12V @ 0-29A	348W	8.5 x 4.5 x 2.0	150	1.0	0.5	83	—	UL/CUL	43.95	39.95
2094928	Mean Well	SE-450-12	+12V @ 0-37.5A	450W	8.9 x 4.9 x 2.0	200	1.0	0.5	83	✔	UL/CUL	64.95	58.95
2122319	Mean Well	HRP-450-12	+12V @ 0-37.5A	450W	8.6 x 4.1 x 1.6	120	0.5	0.3	88	✔	UL/CUL/TUV/CE/CB	114.95	104.95
2193352	Mean Well**	MSP-450-12	+12V @ 0-37.5A	450W	8.6 x 4.1 x 1.6	120	0.5	0.3	88	✔	UL/CUL/CB/CE	149.95	134.95
301373	Mean Well	SP-480-12	+12V @ 0-40A at 230VAC; 0-36A @ 115VAC	480W	10.9 x 5.0 x 1.7	120	0.5	0.3	85	✔	UL/CUL/TUV/CE/CB	134.95	119.95
190693	Mean Well	SP-500-12	+12V @ 0-40A at 230VAC; 0-34A @ 115VAC	480W	6.7 x 4.7 x 3.7	240	0.5	0.5	84	✔	UL/CUL/TUV/CE/CB	149.95	134.95

* Primary output   ** Medical rated   § Efficiency

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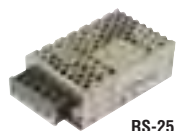
• 100% full-load burn-in test   • Wide AC input range   • Manufacturer warranty varies

★ Web Code: EPS

PSP-600   RS-25

Part No.	Manufacturer	Mfr. Part No.	Voltage @ Current (min-max)	Power	Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%) §	PFC	Certification	Pricing 1	Pricing 10
						Single Output (Continued)							
2197978	Mean Well	RSP-500-12	+12V @ 0-41.7A	500.4W	9.1 x 5.0 x 1.6	150	0.5	0.3	89	✔	UL/CUL/TUV/CB/CE	$109.95	$99.95
374011	Mean Well	SE-600-12	+12V @ 0-50A	600W	9.7 x 5.0 x 2.5	150	0.5	0.5	83	—	UL/CUL	84.95	77.95
374214	Mean Well	PSP-600-12	+12V @ 0-50A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	84	✔	UL/CUL/TUV/CE/CB	134.95	119.95
2094961	Mean Well	HRPG-600-12	+12V @ 0-53A	636W	8.6 x 4.1 x 2.5	120	0.5	0.3	88	✔	UL/CUL/TUV/CE/CB	134.95	119.95
2204761	Mean Well**	MSP-600-12	+12V @ 0-53A	636W	8.6 x 4.1 x 1.6	120	0.5	0.3	88	✔	UL/CUL/CB/CE	159.95	144.95
1585670	Mean Well	RSP-1000-12	+12V @ 0-60A	720W	11.6 x 5.0 x 1.6	150	0.5	0.5	83	—	EN/TUV/UL	249.95	229.95
319944	Mean Well	SP-750-12	+12V @ 0-62A	750W	10.9 x 5.0 x 2.5	120	0.5	0.3	85	✔	UL/CUL/TUV/CE/CB	199.95	179.95
2101542	Mean Well	SE-1000-12	+12V @ 0-83.3A	999.6W	10.9 x 5 x 2.5	150	0.5	0.5	85	—	UL/CUL	174.95	159.95
694911	Mean Well	RSP-1500-12	+12V @ 0-125A	1500W	10.9 x 5 x 3.3	150	0.5	0.5	87	✔	EN/TUV/UL	349.95	324.95
2107944	Mean Well	SPV-1500-12	+12V @ 0-125A	1500W	10.9 x 5 x 3.3	150	0.5	0.5	86.5	✔	EN/TUV/UL	399.95	359.95
202025	Mean Well	S-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0 x 4.3 x 2.0	180	0.3	0.3	77	—	UL/CUL/TUV/CE/CB	34.95	31.95
212410	Mean Well	SP-200-13.5	+13.5V @ 0-14.9A	201.1W	7.0 x 3.9 x 2.0	100	0.5	0.5	80	✔	UL/CUL/TUV/CE/CB	49.95	44.95
693599	Mean Well	SP-320-13.5	+13.5V @ 0-22A	297W	8.5 x 4.5 x 2.0	150	0.5	0.5	86	✔	UL/CUL/TUV/CE/CB	61.95	55.95
212389	Mean Well	SP-500-13.5	+13.5V @ 0-36A at 230VAC; 0-30.6A @ 115VAC	486W	6.7 x 4.7 x 3.7	240	0.5	0.5	84	✔	UL/CUL/TUV/CE/CB	149.95	134.95
2106079	Mean Well	PSP-600-13.5	+13.5V @ 0-44.5A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	85	✔	UL/CUL/TUV/CE/CB	129.95	119.95
2105447	Mean Well†	AD-55A	+13.8V @ 0-4A	51.4W	6.3 x 3.8 x 1.5	100	0.5	0.5	71	—	UL/CUL/TUV/CE/CB	33.95	29.95
2105439	Mean Well†	AD-155A	+13.8V @ 0-5A 10.5A	151.6W	7.8 x 4.3 x 2.0	150	0.5	0.5	80	✔	UL/CUL/TUV/CE/CB	54.95	48.95
1919060	Mean Well	RS-15-15	+15V @ 0-1A	15W	2.5 x 2.0 x 1.1	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	8.95	7.95
323302	Mean Well	RS-25-15	+15V @ 0-1.7A	25.5W	3.0 x 2.0 x 1.1	120	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	11.49	10.49
323345	Mean Well	RS-35-15	+15V @ 0-2.4A	36W	3.9 x 3.2 x 1.4	120	0.5	0.5	83	—	UL/CUL/TUV/CE/CB	12.49	11.49
123343	Mean Well	S-60-15	+15V @ 0-4A	60W	6.3 x 3.8 x 1.5	150	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	24.95	22.49
323602	Mean Well	RS-75-15	+15V @ 0-5A	75W	5.1 x 3.9 x 1.5	120	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	16.95	15.49
194845	Mean Well	SP-75-15	+15V @ 0-5A	75W	7.0 x 3.8 x 1.3	80	0.5	0.5	80	✔	UL/CUL/TUV/CE/CB	32.95	29.95
323724	Mean Well	RS-100-15	+15V @ 0-7A	105W	6.3 x 3.8 x 1.5	120	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	22.95	20.95
323847	Mean Well	RS-150-15	+15V @ 0-10A	150W	7.8 x 3.9 x 1.5	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	23.95	21.95
123432	Mean Well	S-150-15	+15V @ 0-10A	150W	7.0 x 4.3 x 2.0	180	0.3	0.3	85	—	UL/CUL/TUV/CE/CB	34.95	31.95
173412	Mean Well	SP-150-15	+15V @ 0-10A	150W	7.0 x 3.9 x 2.0	100	0.5	0.5	86.5	✔	UL/CUL/TUV/CE/CB	42.95	38.95
202060	Mean Well	SP-200-15	+15V @ 0-13.4A	201W	7.0 x 3.9 x 2.0	100	0.5	0.5	81	✔	UL/CUL/TUV/CE/CB	49.95	44.95
693610	Mean Well	SP-320-15	+15V @ 0-20A	300W	8.5 x 4.5 x 2.0	150	0.5	0.3	86	✔	UL/CUL/TUV/CE/CB	61.95	55.95
2149511	Mean Well	SE-350-15	+15V @ 0-14.6A	350.5W	8.5 x 4.5 x 1.9	150	0.5	0.5	84	—	UL	43.95	39.95
693652	Mean Well	SP-480-15	+15V @ 0-35A	480W	10.9 x 5.0 x 1.7	150	0.5	0.3	85	✔	UL/CUL/TUV/CE/CB	129.95	114.95
291522	Mean Well	SE-600-15	+15V @ 0-40A	600W	9.7 x 5.0 x 2.5	150	0.5	0.5	84	—	UL/CUL	84.95	77.95
374222	Mean Well	PSP-600-15	+15V @ 0-40A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	85	✔	UL/CUL/TUV/CE/CB	129.95	119.95
1585696	Mean Well	RSP-1000-15	+15V @ 0-50A	750W	11.6 x 5.0 x 1.6	150	0.5	0.5	85	✔	UL/CUL/TUV/CE	239.95	224.95
694920	Mean Well	RSP-1500-15	+15V @ 0-100A	1500W	10.9 x 5.0 x 3.3	150	0.5	0.5	87	✔	UL/CUL/TUV/CE/CB	339.95	319.95
2193168	Mean Well	IRM-05-24	+24V @ 0-0.23A	5.52W	1.8 x 1.0 x 0.85	200	0.5	0.3	77	—	UL/CUL/CB/CE/TUV	7.49	6.75
1954560	Mean Well**	PM-10-24	+24V @ 0-0.42A	10.08W	2.8 x 2.0 x 0.9	240	0.5	0.5	79	—	EN/IEC/TUV/UL	11.95	10.95
1919078	Mean Well	RS-15-24	+24V @ 0-0.625A	15W	2.5 x 2.0 x 1.1	200	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	8.95	7.95
323311	Mean Well	RS-25-24	+24V @ 0-1.1A	26.4W	3.0 x 2.0 x 1.1	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	11.49	10.49
123272	Mean Well	S-25-24	+24V @ 0-1.1A	26.4W	3.9 x 3.8 x 1.4	100	0.5	0.5	80	—	UL/TUV/CE	18.95	16.95
323353	Mean Well	RS-35-24	+24V @ 0-1.5A	36W	3.9 x 3.2 x 1.4	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	12.49	11.49
123319	Mean Well	S-40-24	+24V @ 0-1.8A	43W	5.1 x 3.9 x 1.5	100	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	21.95	19.95
323417	Mean Well	RS-50-24	+24V @ 0-2.2A	52.8W	3.9 x 3.8 x 1.4	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	13.95	12.95
123352	Mean Well	S-60-24	+24V @ 0-2.5A	60W	6.3 x 3.8 x 1.5	150	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	24.95	22.49
323620	Mean Well	RS-75-24	+24V @ 0-3.2A	76.8W	5.1 x 3.9 x 1.5	120	0.5	0.5	85	—	UL/CUL/TUV/CE/CB	16.95	15.49
2104250	Mean Well	NES-75-24	+24V @ 0-3.2A	76.8W	6.3 x 3.8 x 1.5	200	0.5	0.5	86	—	UL/CUL/CE/CB	18.95	16.95
194812	Mean Well	SP-100-24	+24V @ 0-4.2A	100.8W	7.0 x 3.9 x 1.8	150	0.5	0.5	84	✔	UL/CUL/TUV/CE/CB	36.95	34.49
2190291	Mean Well	SE-100-24	+24V @ 0-4.5A	108W	6.0 x 3.8 x 1.5	120	0.5	0.5	86	—	UL/CUL/CB/CE	19.95	17.95
323732	Mean Well	RS-100-24	+24V @ 0-4.5A	108W	6.3 x 3.8 x 1.5	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	22.95	20.95
201971	Mean Well	S-100F-24	+24V @ 0-4.5A	108W	7.8 x 3.9 x 1.5	150	0.5	0.5	83	—	UL/TUV/CE/CB	29.95	27.95
2172261	Mean Well**	MSP-100-24	+24V @ 0-4.5A	108W	6.3 x 3.8 x 1.5	150	0.5	0.2	88.5	✔	ANSI/AAMI/IEC	55.95	49.95
155651	Power One	MAP110-1024CM	+24V @ 5A or +28V @ 4.3A	120W	7.0 x 4.3 x 1.8	240	0.5	1.0	75	—	UL/CSA/TUV	21.95	19.95

*Primary Output   **Medical rated   †UPS function   § Efficiency

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Part No.	Manufacturer	Mfr. Part No.	Output Voltage @ Current (min-max)	Power	Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%)§	PFC	Certification	Pricing 1	10
			Single Output (Continued)										
173404	Mean Well	SP-150-24	+24V @ 0-6.25A	150W	7.0 x 3.9 x 2.0	150	0.5	0.5	83	✔	UL/CUL/TUV/CE/CB	$42.95	$38.95
2147971	Mean Well	HLG-150H-24	+24V @ 0-6.3A	151.2W	9.0 x 2.7 x 1.5	150	0.5	0.5	93	✔	UL/CSA/EN/IP/TUV	65.95	59.95
123450	Mean Well	S-150-24	+24V @ 0-6.5A	156W	7.0 x 4.3 x 2.0	240	0.2	0.2	85	—	UL/CUL/TUV/CE/CB	34.95	31.95
323855	Mean Well	RS-150-24	+24V @ 0-6.5A	156W	7.8 x 3.9 x 1.5	120	0.5	0.5	86	—	UL/CUL/TUV/CE/CB	22.49	20.49
2135523	TDK/Lambda	HWS150-24/A	+24V @ 0-6.5A	156W	6.3 x 1.7 x 3.2	150	0.5	0.3	85	—	UL/CSA/CE/EN/IEC	44.95	41.95
2101868	Mean Well	HRP-150-24	+24V @ 0-6.5A	156W	6.3 x 3.8 x 1.5	150	0.5	0.2	88	✔	UL/CUL/TUV/CE/CB	54.95	49.95
2094864	Mean Well	HRPG-150-24	+24V @ 0-6.5A	156W	6.3 x 3.8 x 1.5	150	0.5	0.3	87	✔	UL/CUL/TUV/CE/CB	63.95	57.95
2205173	Globtek	SP-200-24M	+24V @ 0-8.4A	200W	7.8 x 3.9 x 1.9	150	0.5	0.3	95	—	UL/TUV/CE	44.95	39.95
194782	Mean Well	SP-200-24	+24V @ 0-8.4A	201.6W	7.0 x 3.9 x 2.0	150	0.5	0.5	83	✔	UL/CUL/TUV/CE/CB	49.95	44.95
2172341	Mean Well**	MSP-200-24	+24V @ 0-8.4A	201.6W	7.8 x 3.9 x 1.5	150	0.5	0.2	88	✔	ANSI/AAMI/IEC	89.95	79.95
2101518	Mean Well	SP-240-24	+24V @ 0-10A	240W	7.5 x 3.7 x 2.0	150	0.5	0.2	87	✔	UL/CUL/TUV/CE/CB	49.95	44.95
196657	Mean Well	S-320-24	+24V @ 0-12.5A	300W	8.5 x 4.5 x 2.0	150	0.5	0.5	86	—	UL/CUL	64.95	59.95
2122714	Mean Well	SPV-300-24	+24V @ 0-12.5A	300W	8.5 x 4.5 x 1.9	150	0.5	0.2	85	✔	EN/TUV/UL	98.95	88.95
244752	Mean Well	SP-320-24	+24V @ 0-13A	312W	8.5 x 4.5 x 2.0	150	0.5	0.2	87	✔	UL/CUL/TUV/CE/CB	61.95	55.95
2102220	Mean Well	HRP-300-24	+24V @ 0-14A	336W	7.7 x 4.1 x 1.6	150	0.5	0.2	87	✔	UL/CUL/TUV/CE/CB	76.95	69.95
2094881	Mean Well	HRPG-300-24	+24V @ 0-14A	336W	7.8 x 4.1 x 1.6	150	0.5	0.3	87	✔	UL/CUL/TUV/CE/CB	89.95	79.95
2166055	Mean Well**	MSP-300-24	+24V @ 0-14A	336W	7.8 x 4.1 x 1.6	150	0.5	0.2	87	✔	ANSI/AAMI/IEC	104.95	94.95
2146564	Mean Well	SE-350-24	+24V @ 0-14.6A	350.4W	8.5 x 4.5 x 2.0	150	0.5	0.5	87	—	UL/CUL	43.95	39.95
2101606	Mean Well	SE-450-24	+24V @ 0-18.8A	451.2W	8.9 x 4.9 x 2.0	200	0.5	0.2	86	—	UL/CUL	64.95	58.95
2122335	Mean Well	HRP-450-24	+24V @ 0-18.8A	451.2W	8.6 x 4.1 x 1.6	150	0.5	0.2	88	✔	UL/CUL/TUV/CE/CB	114.95	104.95
2193379	Mean Well**	MSP-450-24	+24V @ 0-18.8A	451.2W	8.6 x 4.1 x 1.6	150	0.5	0.2	88	✔	UL/CUL/CB/CE	149.95	134.95
301322	Mean Well	SP-480-24	+24V @ 0-22A	480W	10.9 x 5.0 x 1.7	150	0.5	0.2	87	✔	UL/CUL/TUV/CE/CB	129.95	114.95
147054	Mean Well	SP-500-24	+24V @ 0-20A	480W	6.7 x 4.7 x 3.7	240	0.5	0.5	85.5	✔	UL/CUL/TUV/CE/CB	149.95	134.95
295902	Mean Well	SE-600-24	+24V @ 0-25A	600W	9.7 x 5.0 x 2.5	150	0.5	0.5	87	—	UL/CUL	84.95	77.95
374231	Mean Well	PSP-600-24	+24V @ 0-25A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	86	✔	UL/CUL/TUV/CE/CB	129.95	119.95
2204787	Mean Well**	MSP-600-24	+24V @ 0-27A	648W	8.6 x 4.1 x 2.5	150	0.5	0.2	88	✔	UL/CUL/CB/CE	159.95	144.95
320048	Mean Well	SP-750-24	+24V @ 0-31.3A	750W	10.9 x 5.0 x 2.5	120	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	199.95	179.95
2172121	Mean Well	RSP-750-24	+24V @ 0-31.3A	751.2W	9.8 x 5.0 x 1.6	150	0.5	0.5	90.5	✔	EN/TUV/UL	179.95	164.95
1585717	Mean Well	RSP-1000-24	+24V @ 0-40A	960W	11.6 x 5.0 x 1.6	150	0.5	0.5	88	✔	UL/CUL/TUV/CE/CB	249.95	229.95
2101569	Mean Well	SE-1000-24	+24V @ 0-41.7A	1000.8W	10.9 x 5.0 x 2.5	200	0.5	0.5	88	—	UL/CUL	174.95	159.95
694938	Mean Well	RSP-1500-24	+24V @ 0-63A	1512W	10.9 x 5.0 x 3.3	150	0.5	0.5	90	✔	UL/CUL/TUV/CE/CB	339.95	314.95
2106714	Mean Well	RSP-2400-24	+24V @ 0-100A	2400W	10.9 x 7.0 x 2.5	150	0.5	0.5	90	✔	EN/TUV/UL	454.95	414.95
2106749	Mean Well	RSP-3000-24	+24V @ 0-125A	3000W	10.9 x 7.0 x 2.5	150	0.5	0.5	90	✔	EN/TUV/UL	499.95	449.95
693513	Mean Well	SP-150-27	+27V @ 0-5.6A	151.2W	7.8 x 3.9 x 2.0	15	0.5	0.5	84	—	UL/CUL/TUV/CE/CB/PFC	42.95	38.95
693548	Mean Well	SP-200-27	+27V @ 0-7.5A	202.5W	7.0 x 3.9 x 2.0	150	0.5	0.5	83	✔	UL/CUL/TUV/CE/CB	49.95	44.95
693628	Mean Well	SP-320-27	+27V @ 0-11.7A	315.9W	8.5 x 4.5 x 2.0	200	0.5	0.2	88	✔	UL/CUL/TUV/CE/CB	61.95	55.95
190706	Mean Well	SP-500-27	+27V @ 0-18A	486W	6.7 x 4.7 x 3.7	200	0.5	0.5	86.5	✔	UL/CUL/TUV/CE/CB	149.95	134.95
295911	Mean Well	SE-600-27	+27V @ 0-22.2A	599.4W	9.7 x 5.0 x 2.5	150	0.5	0.5	87	—	UL/CUL	84.95	77.95
374257	Mean Well	PSP-600-27	+27V @ 0-22.2A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	86	✔	UL/CUL/TUV/CE/CB	134.95	119.95
374038	Mean Well	SP-750-27	+27V @ 0-27.8A	750W	10.9 x 5.0 x 2.5	120	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	174.95	159.95
1585709	Mean Well	RSP-1000-27	+27V @ 0-37.0A	999W	11.6 x 5.0 x 1.6	150	0.5	0.5	88	✔	UL/CUL/TUV/CE/CB	239.95	214.95
694946	Mean Well	RSP-1500-27	+27V @ 0-56A	1512W	10.9 x 5.0 x 3.3	150	0.5	0.5	90	✔	UL/CUL/TUV/CE/CB	32.95	29.95
2102983	Mean Well	PB-120N-27C#	+27.6V @ 0-4.3A	118.7W	7.1 x 3.8 x 1.9	150	£	£	79	—	UL/CUL/TUV/CE/CB	44.95	39.95
2146118	Mean Well	AD-155B	+27.6V @ 0-5.5A	152W	7.8 x 4.3 x 2.0	150	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	54.95	48.95
2102473	Mean Well	SP-240-30	+30V @ 0-8A	240W	7.5 x 3.7 x 2.0	150	0.5	0.2	88	✔	UL/CUL/TUV/CE/CB	49.95	44.95
2101024	Mean Well	HRP-75-36	+36V @ 0-2.1A	75.6W	5.1 x 3.9 x 1.5	200	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	40.95	36.95
2102730	Mean Well	SP-320-36	+36V @ 0-8.8A	316.8W	8.5 x 4.5 x 2.0	220	0.5	0.2	87	✔	UL/CUL/TUV/CE/CB	61.95	55.95
2102318	Mean Well	HRP-300-36	+36V @ 0-14A	324W	7.8 x 4.1 x 1.6	250	0.5	0.2	88	✔	EN/TUV/UL	76.95	69.95
2104524	Mean Well	SE-600-36	+36V @ 0-16.6A	598W	9.7 x 5.0 x 2.5	200	0.5	0.5	87	—	UL/CUL	84.95	77.95
2101753	Mean Well	HRPG-600-36	+36V @ 0-17.5A	630W	8.6 x 4.1 x 2.5	200	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	134.95	119.95
693206	Mean Well	RS-25-48	+48V @ 0-0.57A	27.4W	3.1 x 2.0 x 1.1	200	0.5	0.5	85	—	UL/CUL/TUV/CE/CB	11.49	10.49
693249	Mean Well	RS-50-48	+48V @ 0-1.1A	52.8W	3.9 x 3.8 x 1.4	200	0.5	0.5	86	—	UL/CUL/TUV/CE/CB	13.95	12.95
693290	Mean Well	RS-100-48	+48V @ 0-2.3A	110.4W	6.3 x 3.8 x 1.5	200	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	22.95	20.95
167346	Mean Well	S-150-48	+48V @ 0-3.2A	153.6W	7.0 x 4.3 x 2.0	240	0.2	0.2	83	—	UL/CUL/TUV/CE/CB	32.95	29.95
201930	Mean Well	SP-150-48	+48V @ 0-3.2A	153.6W	7.0 x 3.9 x 2.0	250	0.5	0.5	83	✔	UL/CUL/TUV/CE/CB	42.95	38.95
323863	Mean Well	RS-150-48	+48V @ 0-3.3A	158.4W	7.8 x 3.9 x 1.5	200	0.5	0.5	87	—	UL/CUL/TUV/CE/CB	23.95	21.95
202068	Mean Well	SP-200-48	+48V @ 0-4.2A	201.6W	7.0 x 3.9 x 2.0	250	0.5	0.5	84	✔	UL/CUL/TUV/CE/CB	49.95	44.95
2102481	Mean Well	SP-240-48	+48V @ 0-5A	240W	7.5 x 3.7 x 2.0	150	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	49.95	44.95
2197855	TDK Lambda	SWS300-48	+48V @ 0-6.7A	321.6W	7.8 x 4.0 x 2.0	240	0.1	0.2	86	✔	UL/CSA/CE	49.95	44.95

*Primary Outpu   **Medical rated   § Efficiency   # See complete specs on page 115   £ Load/line regulation is dependent on battery current requirement

Power

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RQ-65

★ Web Code: EPS

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Part No.	Manufacturer	Mfr. Part No.	Voltage @ Current (min-max)	Power	Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%) §	PFC	Certification	1	10
			Output									**Pricing**	
Single Output (Continued)												
244770	Mean Well	SP-320-48	+48V @ 0-6.7A	321.6W	8.5 x 4.5 x 2.0	240	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	$61.95	$55.95
2149554	Mean Well	SE-350-48	+48V @ 0-7.3A	350W	8.5 x 4.5 x 2.0	240	0.5	0.5	87.5	—	UL/CUL	43.95	39.95
2105164	Mean Well	SE-450-48	+48V @ 0-9.4A	451.2W	8.9 x 4.9 x 2.0	200	0.5	0.2	88	—	UL/CUL	64.95	58.95
2122360	Mean Well	HRP-450-48	+48V @ 0-9.5A	456W	8.6 x 4.1 x 1.6	240	0.5	0.2	89.5	✔	EN/TUV/UL	114.95	104.95
301402	Mean Well	SP-480-48	+48V @ 0-11A	480W	10.9 x 5.0 x 1.7	240	0.5	0.2	89	✔	UL/CUL/TUV/CE/CB	129.95	119.95
161796	Mean Well	SP-500-48	+48V @ 0-10A	480W	6.7 x 4.7 x 3.7	300	0.5	0.5	87	✔	UL/CUL/TUV/CE/CB	149.95	134.95
2198014	Mean Well	RSP-500-48	+48V @ 0-10.5A	504W	9.1 x 5.0 x 1.6	150	0.5	0.2	90.5	✔	UL/CUL/TUV/CB/CE	109.95	99.95
295929	Mean Well	SE-600-48	+48V @ 0-12.5A	600W	9.7 x 5.0 x 2.5	200	0.5	0.5	88	—	UL/CUL	84.95	77.95
374249	Mean Well	PSP-600-48	+48V @ 0-12.5A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	87	✔	UL/CUL/TUV/CE/CB	134.95	119.95
2101577	Mean Well	SE-1000-48	+48V @ 0-20.8A	998.4W	10.9 x 5.0 x 2.5	200	0.5	0.5	89	—	UL/CUL	174.95	159.95
1585725	Mean Well	RSP-1000-48	+48V @ 0-21.0A	1008W	11.6 x 5.0 x 1.6	150	0.5	0.5	90	✔	UL/CUL/TUV/CE/CB	239.95	219.95
694954	Mean Well	RSP-1500-48	+48V @ 0-32.0A	1536W	10.9 x 5.0 x 3.3	200	0.5	0.5	91	✔	UL/CUL/TUV/CE/CB	349.95	324.95
2106722	Mean Well	RSP-2400-48	+48V @ 0-50A	2400W	10.9 x 7.0 x 2.5	200	0.5	0.5	91.5	✔	EN/TUV/UL	454.95	414.95
2108921	Mean Well	RSP-3000-48	+48V @ 0-62.5A	3000W	10.9 x 7.0 x 2.5	200	0.5	0.5	90.5	✔	UL/CUL/TUV/CE/CB	499.95	449.95
Double Output												
323362	Mean Well	RD-35A	+5V @ 0.3-4A; +12V @ 0.2-1A	32W	3.9 x 3.2 x 1.4	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	$14.49	$13.49
323380	Mean Well	RD-35B	+5V @ 0.3-4A; +24V @ 0.2-1.3A	51.2W	3.9 x 3.2 x 1.4	80	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	14.49	13.49
323433	Mean Well	RD-50B	+5V @ 0.3-6A; +24V @ 0.2-2A	53.6W	3.9 x 3.8 x 1.4	80	0.5	0.5	80	—	UL/CUL/TUV/CE/CB	23.95	21.49
323425	Mean Well	RD-50A	+5V @ 0.3-6A; +12V @ 0.3-3A	54W	3.9 x 3.8 x 1.4	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	23.95	21.49
323505	Mean Well	RD-65A	+5V @ 0.3-8A; +12V @ 0.2-4A	66W	5.1 x 3.9 x 1.5	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	26.95	23.95
323513	Mean Well	RD-65B	+5V @ 0.3-8A; +24V @ 0.2-3A	68W	5.1 x 3.9 x 1.5	80	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	26.95	23.95
323628	Mean Well	RD-85A	+5V @ 2.0-10A; +12V @ 0.3-5A	88W	6.3 x 3.8 x 1.5	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	37.95	33.49
132397	Mean Well	D-120B	+5V @ 2.0-6A; +24V @ 0.4-4A	126W	7.0 x 3.9 x 2.0	60	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	39.95	36.95
323741	Mean Well	RD-125A	+5V @ 2.0-15A; +12V @ 0.5-10A	130.9W	7.8 x 3.9 x 1.5	80	3.0	1.0	82	—	UL/CUL/TUV/CE/CB	32.95	29.95
2106124	Mean Well	RD-125-1224	+12V @ 1.0-3.7A; +24V @ 0.4-3.7A	133.2W	7.8 x 3.9 x 1.5	120	1.0	0.5	85	—	UL/CUL/TUV/CE/CB	32.95	29.95
323759	Mean Well	RD-125B	+5V @ 2.0-10A; +24V @ 0.4-5A	133.4W	7.8 x 3.9 x 1.5	80	3.0	1.0	82	—	UL/CUL/TUV/CE/CB	32.95	29.95
Triple Output												
323460	Mean Well	RT-50B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.1-1A	50W	3.9 x 3.8 x 1.4	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	$20.95	$19.49
323468	Mean Well	RT-50C	+5V @ 0-5A; +15V @ 0.2-2A; -15V @ 0.1-1A	50W	3.9 x 3.8 x 1.4	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	20.95	19.49
323476	Mean Well	RT-50D	+5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A	51W	3.9 x 3.8 x 1.4	80	1.0	0.5	80	—	UL/CUL/TUV/CE/CB	20.95	19.49
123482	Mean Well	T-60B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A	61W	6.3 x 3.8 x 1.5	100	1.0	0.5	72	—	UL/CUL/TUV/CE/CB	29.95	26.95
323540	Mean Well	RT-65B	+5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0-1A	64.6W	5.1 x 3.9 x 1.5	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	23.95	21.49
323548	Mean Well	RT-65C	+5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0-1A	65.5W	5.1 x 3.9 x 1.5	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	23.95	21.49
323555	Mean Well	RT-65D	+5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A	68W	5.1 x 3.9 x 1.5	80	1.0	0.5	79	—	UL/CUL/TUV/CE/CB	21.95	19.95
323775	Mean Well	RT-125B	+5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A	132W	7.8 x 3.9 x 1.5	80	1.0	0.5	80	—	UL/CUL/TUV/CE/CB	34.95	31.49
323783	Mean Well	RT-125C	+5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0.1-1A	132.5W	7.8 x 3.9 x 1.5	80	1.0	0.5	81	—	UL/CUL/TUV/CE/CB	34.95	31.49
323792	Mean Well	RT-125D	+5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A	136W	7.8 x 3.9 x 1.5	80	1.0	0.5	82	—	UL/CUL/TUV/CE/CB	34.95	31.49
Quad Output												
323484	Mean Well	RQ-50B	+5V @ 0.5-6A; +12V @ 0.2-1.5A; -5V @ 0-1A; -12V @ 0-1A	45.5W	3.9 x 3.8 x 1.4	80	0.5	0.5	74	—	UL/CUL/TUV/CE/CB	$21.95	$19.95
323564	Mean Well	RQ-65B	+5V @ 0.5-8A; +12V @ 0.2-3A; -5V @ 0.1-1.5A; -12V @ 0-1A	62.5W	5.1 x 3.9 x 1.5	80	0.5	0.5	76	—	UL/CUL/TUV/CE/CB	20.95	19.95
323572	Mean Well	RQ-65D	+5V @ 0.5-8A; +12V @ 0.2-3A; +24V @ 0.1-1.5A; -12V @ 0-1A	68W	5.1 x 3.9 x 1.5	80	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	20.95	19.95
323695	Mean Well	RQ-85D	+5V @ 2-10A; +12V @ 0.3-4A; +24V @ 0.1-1.5A; -12V @ 0-1A	84W	6.3 x 3.8 x 1.5	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	31.95	29.95
323803	Mean Well	RQ-125B	+5V @ 2-12A; +12V @ 0.5-4.5A; -5V @ 0.1-1A; -12V @ 0-1A	120W	7.0 x 3.9 x 2.0	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	36.95	33.95
323812	Mean Well	RQ-125D	+5V @ 2-12A; +12V @ 0.5-4A; +24V @ 0.1-2.5A; -12V @ 0-1A	124W	7.8 x 3.9 x 1.5	80	1.0	0.5	82	—	UL/CUL/TUV/CE/CB	39.95	35.95
213648	Mean Well	QP-150F	+5V @ 3-15A; +15V @ 0-5A; +24V @ 0.4-3A; -15V @ 0-1A	152W	7.8 x 3.9 x 1.5	120	2.0	1.0	78	—	UL/CUL/TUV/CE/CB	86.95	79.95
213752	Mean Well	QP-200D	+5V @ 3-20A; +12V @ 0-6A; +24V @ 0.4-5A; -12V @ 0-1A	204.9W	7.8 x 3.9 x 2.0	100	2.0	1.0	75	✔	UL/CUL/TUV/CE/CB	99.95	89.95
668764	Mean Well	QP-320D	+5V @ 2.5-20A; +12V @ 0-10A; +24V @ 0.2-5A; -12V @ 0.2-2A	316W	8.5 x 4.5 x 2.0	100	2.0	1.0	83	✔	UL/CUL/TUV/CE	119.95	108.95

*Primary output   § Efficiency

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- Cooling by free air convection
- Short-circuit/overload/overvoltage/overtemperature protection
- 100% full-load burn-in test
- UL1310 class 2 power unit
- Universal AC input/full range

NEW MARKED IN PINK

★ Web Code: LPP

PLN Series

CLG Series

FEATURES	Series										
	APC	APV	CLG	ELN/LPC/LPV/PLN	HLG	LPF	PLC	PLP	PCP	PWM	OWA
Case	Plastic	Plastic	Metal	Plastic	Metal	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Working Temperature (°C)	-30 to 70	-30 to 70	-30 to 70	-30 to 50	-30 to 70	-35 to 70	-30 to 50	-30 to 70	-40 to 80	-40 to 70	-40 to 70
Voltage (CV or AV) §	AV	CV	AV	CV	AV	CV	AV	CV	AV	CV	CV
Current (CC or AC) §	CC	AC	AC	CC	CC	CC	AC	AC	CC	CC	CC
Inrush Current (A/VAC)	70/230	70/230	40/230	40/230	75/230	45/230	40/230	42/230	10/115, 230	50/230	30/115; 60/230
PFC Function	✓	—	✓	—	✓	✓	✓	✓	✓	✓	✓
Warranty	2 Year	2 Year	3 Year	2 Year	3 Year	5 Year	2 Year	2 Year	3 Year	5 Year	5 Year

§ CV: constant voltage; **AV:** adjustable voltage; **CC:** constant current; **AC:** adjustable current

Part No.	Manufacturer	Mfr. Part No.	Output Voltage @ Current (min-max)	Power (W)	Input Voltage (VAC @ Hz)	Size (L" x W" x H")	Enclosure Rating	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10
2142053	Mean Well	APV-12-5	+5V @ 0-2A	10	90-264 @ 47-63	3.0 x 1.6 x 1.1	—	2.0	1.0	TUV/EN/UL	$5.75	$4.95
2103249	Mean Well	LPV-60-5	+5V @ 0-8A	40	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	6.0	1.0	CAN/CSA/EN/IP/TUV/UL	16.95	15.49
2215136	Mean Well	OWA-90U-12	+7.2-12V @ 0-7.5A	90	90-264 @ 47-63	6.7 X 2.5 X 1.5	IP67	1.5	0.5	UL/CUL	43.95	38.95
2215005	Mean Well	NPF-90-12	+7.2-12V @ 0-7.5A	90	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	1.5	0.5	UL/CUL/CB/CE/ENC	38.95	35.95
2214918	Mean Well	NPF-90D-12	+7.2-12V @ 0-7.5A	90	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	1.5	0.5	UL/CUL/CB/CE/ENC	41.95	39.95
2141026	Mean Well	PCD-16-1400A	+8-12V @ 0-1.4A	16.8	90-135 @ 47-63	3.3 x 2.2 x 1.2	—	—	—	UL/CSA/EN/IP/TUV	17.95	15.95
2215144	Mean Well	OWA-90U-15	+9-15V @ 0-6A	90	90-264 @ 47-63	6.7 X 2.5 X 1.5	IP67	1.0	0.5	UL/CUL	43.95	38.95
2142141	Mean Well	APC-12-700	+9-18V @ 0.7A	12.6	90-264 @ 47-63	3.0 x 1.6 x 1.1	—	3.0	1.0	TUV/EN/UL	5.95	5.49
2101315	Mean Well	LPC-60-1400	+9-42V @ 0-1.4A	59.5	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	EN/IP/TUV/UL	17.95	15.95
2101147	Mean Well	LPC-60-1050	+9-48V @ 0-1.05A	50.4	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	EN/IP/TUV/UL	17.95	15.95
2142061	Mean Well	APV-12-12	+12V @ 0-1A	12	90-264 @ 47-63	3.0 x 1.6 x 1.1	—	2.0	1.0	CE	5.75	4.95
2102596	Mean Well	LPV-20-12	+12V @ 0-1.67A	20	90-264 @ 47-63	4.6 x 1.4 x 1.0	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE	10.49	9.49
2164076	Mean Well	APV-25-12	+12V @ 0-2.1A	25.2	90-264 @ 47-63	3.3 x 2.2 x 1.2	—	2.0	1.0	EN/UL	10.95	9.95
1954404	Mean Well	PLN-30-12	+12V @ 0-2.5A	30	90-295 @ 47-63	5.7 x 1.9 x 1.2	IP64	5.0	3.0	UL/CUL/TUV/CE	20.95	18.95
2164121	Mean Well	APV-35-12	+12V @ 0-3A	36	90-264 @ 47-63	3.3 x 2.2 x 1.2	—	2.0	1.0	EN/UL	11.95	10.96
2103142	Mean Well	LPV-35-12	+12V @ 0-3A	36	90-264 @ 47-63	5.8 x 1.6 x 1.2	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE	14.95	13.49
2140568	Mean Well	LPF-40D-12	+12V @ 0-3.34A	40.08	90-305 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	0.5	UL/EN/IP/TUV	28.95	25.95
2122976	Mean Well	PLN-45-12	+12V @ 0-3.8A	45.6	90-295 @ 47-63	7.1 x 2.4 x 1.3	IP64	5.0	3.0	UL/CUL/TUV/CE/PFC	10.95	9.95
2103169	Mean Well	LPV-60-12	+12V @ 0-5A	60	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE	16.95	15.49
2105308	Mean Well	ELN-60-12†	+12V @ 0-5A	60	90-264 @ 47-63	7.1 x 2.4 x 1.4	IP64	2.0	1.0	UL/CUL/TUV/CSA/CE	24.95	21.95
1918913	Mean Well	PLN-60-12	+12V @ 0-5A	60	90-295 @ 47-63	7.1 x 2.4 x 1.4	IP64	5.0	3.0	UL/CUL/TUV/CE/PFC	31.95	28.95
1918921	Mean Well	CLG-60-12	+12V @ 0-5A	60	90-295 @ 47-63	6.8 x 2.4 x 1.5	IP67	5.0	3.0	CAN/CSA/EN/IP/TUV/UL	36.95	33.95
1585805	Mean Well	CLG-100-12	+12V @ 0-5A	60	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE/PFC	47.95	44.95
2215099	Mean Well	PWM-90-12	+12V @ 0-7.5A	90	90-305 @ 47-63	6.7 X 2.5 X 1.5	IP67	—	—	UL/CUL	47.95	43.95
2148105	Mean Well	HLG-120H-12B	+12V @ 0-10A	120	90-305 @ 47-63	8.7 x 2.7 x 1.5	IP67	2.0	0.5	UL/CUL/TUV/CE/PFC	56.95	53.95
2105050	Mean Well	CLG-150-12C	+12V @ 0-11A	132	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	1.0	0.5	UL/CUL/TUV/CE/PFC	39.95	35.95
1954877	Mean Well	CLG-150-12A	+12V @ 0-11A	132	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP65	1.0	0.5	UL/TUV/CE	49.95	44.95
2108699	Mean Well	CLG-150-12†	+12V @ 0-11A	132	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	1.0	0.5	UL/CUL/TUV/CE/PFC	49.95	44.95
2137609	Mean Well	HLG-150H-12A	+12V @ 0-12.5A	150	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP65	2.0	0.5	UL/CSA/EN/IP/TUV	65.95	59.95
2147911	Mean Well	HLG-150H-12	+12V @ 0-12.5A	150	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP67	2.0	0.5	UL/CSA/EN/IP/TUV	65.95	59.95
2102158	Mean Well	HLG-240H-12A	+12V @ 0-16A	192	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP65	2.0	0.5	UL/TUV/EN/IP	79.95	72.95
2141780	Mean Well	HLG-320H-12A	+12V @ 0-22A	264	90-305 @ 47-63	9.9 x 3.5 x 1.7	IP65	2.0	0.5	UL/CUL/TUV/CB/CE/PFC	114.95	104.95
2141878	Mean Well	HLG-320H-12B	+12V @ 0-22A	264	90-305 @ 47-63	8.9 x 3.5 x 1.7	IP67	2.0	0.5	UL/CUL/TUV/CB/CE	114.95	104.95
2142150	Mean Well	APC-16-350	+12-48V @ 0-0.35A	16.8	90-264 @ 47-63	3.0 x 1.6 x 1.1	—	3.0	1.0	TUV/EN/UL	6.49	5.75
2215161	Mean Well	OWA-90U-24	+14.4-24V @ 0-3.75A	90	90-264 @ 47-63	6.7 X 2.5 X 1.5	IP67	0.5	0.5	UL/CUL	43.95	38.95
2215030	Mean Well	NPF-90-24	+14.4-24V @ 0-3.75A	90	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL/CB/CE/ENC	38.95	35.95
2214942	Mean Well	NPF-90D-24	+14.4-24V @ 0-3.75A	90	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL/CB/CE/ENC	41.95	39.95
2102609	Mean Well	LPV-20-15	+15V @ 0-1.33A	20	90-264 @ 47-63	4.6 x 1.4 x 1.0	IP67	2.0	1.0	UL/TUV/CE	4.95	4.49
2215187	Mean Well	OWA-90U-36	+21.6-36V @ 0-2.5A	90	90-264 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL/FCC	43.95	38.95
2142088	Mean Well	APV-12-24	+24V @ 0-0.5A	12	90-264 @ 47-63	3.0 x 1.6 x 1.1	—	2.0	1.0	TUV/EN/UL	5.75	4.95
2122440	Mean Well	PLN-20-24	+24V @ 0-0.8A	19.2	90-277 @ 47-63	5.8 x 1.5 x 1.1	IP64	10.0	3.0	UL/TUV/CB/CE/PFC	14.95	13.49
2102617	Mean Well	LPV-20-24	+24V @ 0-0.84A	20.2	90-264 @ 47-63	4.6 x 1.4 x 1.0	IP67	2.0	1.0	UL/CUL/CE	10.49	9.49
2164092	Mean Well	APV-25-24	+24V @ 0-1.05A	25.2	90-264 @ 47-63	3.3 x 2.2 x 1.2	—	2.0	1.0	EN/UL	10.95	9.95

*Primary output   † Dimmable options

LED Enclosed Power Supplies (Continued)

NEW MARKED IN PINK

★ **Web Code: LPP**

Part No.	Manufacturer	Mfr. Part No.	Output Voltage @ Current (min-max)	Power (W)	Input Voltage (VAC @ Hz)	Size (L" x W" x H")	Enclosure Rating	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	10
2164148	Mean Well	APV-35-24	+24V @ 0-1.5A	36	90-264 @ 47-63	3.3 x 2.2 x 1.2	—	2.0	1.0	EN/UL	$11.95	$10.96
2102799	Mean Well	LPV-35-24	+24V @ 0-1.5A	36	90-264 @ 47-63	5.8 x 1.6 x 1.2	IP67	2.0	1.0	UL/CUL/TUV/CE	13.95	12.95
2123004	Mean Well	PLN-45-24	+24V @ 0-1.9A	45.6	90-295 @ 47-63	7.1 x 2.4 x 1.4	IP64	5.0	3.0	UL/TUV/EN/CAN/CSA/IP	24.95	22.49
2102801	Mean Well	LPV-60-24	+24V @ 0-2.5A	60	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	UL/CUL/TUV/CE	16.95	15.49
2105252	Mean Well	ELN-60-24	+24V @ 0-2.5A	60	90-264 @ 47-63	7.1 x 2.4 x 1.4	IP64	2.0	1.0	UL/CUL/TUV/CSA/CE	24.95	21.95
2140681	Mean Well	LPF-60-24	+24V @ 0-2.5A	60	90-305 @ 47-63	6.4 x 1.7 x 1.3	IP67	0.5	0.5	UL/EN/IP/TUV	28.95	25.95
1919027	Mean Well	CLG-60-24	+24V @ 0-2.5A	60	90-295 @ 47-63	7.7 x 2.4 x 1.5	IP67	5.0	3.0	UL/CUL/TUV/CE	36.95	33.95
2140939	Mean Well	LPF-90D-24	+24V @ 0-3.75A	90	90-305 @ 47-63	6.3 x 2.4 x 1.4	IP67	0.5	0.5	UL/EN/IP/TUV	44.95	39.95
2215101	Mean Well	PWM-90-24	+24V @ 0-3.75A	90	180-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	—	—	UL/CUL/CB/CE/ENC	47.95	43.95
2103871	Mean Well	PLC-100-24	+24V @ 0-4A	96	90-264 @ 47-63	7.9 x 2.7 x 1.4	—	2.0	1.0	UL/CUL/TUV/CSA/CE/PFC	38.95	35.95
1585872	Mean Well	CLG-100-24	+24V @ 0-4A	96	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	2.0	1.0	UL/CUL/TUV/CE/PFC	47.95	44.95
2103433	Mean Well	CLG-150-24	+24V @ 0-6.3A	151.2	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	0.5	0.5	UL/CUL/TUV/CE/PFC	48.95	45.95
1954885	Mean Well	CLG-150-24A	+24V @ 0-6.3A	151.2	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP65	1.0	0.5	UL/TUV/CE	48.95	45.95
2215275	Mean Well	LPV-150-24	+24V @ 0-6.3A	151.2	180-305 @ 47-63	7.5 x 2.5 x 1.5	IP67	2	1	UL/CUL/CE	39.95	36.95
2136702	Mean Well	HLG-185H-24A	+24V @ 0-7.8A	187.2	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP65	0.5	0.5	UL/CULus/TUV/CE/IP	69.95	63.95
2136737	Mean Well	HLG-185H-24B	+24V @ 0-7.8A	187.2	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP67	0.5	0.5	UL/CULus/TUV/CE/IP	69.95	63.95
2102174	Mean Well	HLG-240H-24A	+24V @ 0-10A	240	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP65	0.5	0.5	UL/CUL/TUV/CE/PFC	77.95	69.95
2115127	Mean Well	HLG-240H-24B	+24V @ 0-10A	240	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP67	0.5	0.5	UL/CUL/TUV/CE/PFC	77.95	69.95
2141907	Mean Well	HLG-320H-24B	+24V @ 0-10A	240	90-305 @ 47-63	8.9 x 3.5 x 1.7	IP67	0.5	0.5	UL/CUL/TUV/CB/CE	114.95	104.95
2147903	Mean Well	HLG-320H-24	+24V @ 0-13.3A	319.2	90-305 @ 47-63	9.9 x 3.5 x 1.7	IP67	0.5	0.5	UL/CUL/TUV/CB/CE/PFC	114.95	104.95
2140998	Mean Well	PCD-16-350A	+24-48V @ 0-0.35A	16.8	90-135 @ 47-63	3.3 x 2.2 x 1.2	—	—	—	UL/CSA/EN/IP/TUV	17.95	15.95
2215195	Mean Well	OWA-90U-42	+25.2-42V @ 0-2.15A	90	90-261 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL/FCC	43.95	38.95
2215072	Mean Well	NPF-90-48	+28.8-48V @ 0-1.88A	90	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL/CB/CE/ENC	38.95	35.95
2214985	Mean Well	NPF-90D-48	+28.8-48V @ 0-1.88A	90	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL/CB/CE/ENC	41.95	39.95
2215208	Mean Well	OWA-90U-48	+28.8-48V @ 0-1.88A	90.24	90-264 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL	43.95	38.95
2148009	Mean Well	HLG-150-30B**	+30V @ 0-5A	150	90-277 @ 50-60	8.7 x 2.7 x 1.5	IP67	0.5	0.5	UL/TUV/CE/PFC	44.95	39.95
2215216	Mean Well	OWA-90U-54	+32.4-54V @ 0-1.67A	90.18	90-264 @ 47-63	6.7 x 2.5 x 1.5	IP67	0.5	0.5	UL/CUL	43.95	38.95
2140859	Mean Well	LPF-90-24	+34V @ 0-3.75A	90	90-305 @ 47-63	6.3 x 2.4 x 1.4	IP67	0.5	0.5	UL/EN/IP/TUV	42.95	38.95
2165888	Mean Well	LPF-25D-36	+36V @ 0.7A	25.2	90-305 @ 47-63	5.8 x 1.6 x 1.3	IP67	0.5	0.5	UL/CSA/EN/IP/TUV	25.95	23.49
2102625	Mean Well	LPV-60-36	+36V @ 0-1.67A	60	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	CAN/CSA/EN/IP/TUV/UL	16.95	15.49
1918892	Mean Well	PLN-100-48	+36-48V @ 0-2A	96	90-264 @ 47-63	7.9 x 2.8 x 1.4	—	—	—	CAN/CSA/EN/IP/TUV/UL	42.95	38.95
2148025	Mean Well	HLG-150H-36B	+36V @ 0-4.2A	151.2	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP67	0.5	0.5	UL/CUL/TUV/CE/PFC	65.95	59.95
2101850	Mean Well	HLG-240H-36A	+36V @ 0-6.7A	241.2	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP65	0.5	0.5	UL/TUV/EN/IP	79.95	72.95
2141106	Mean Well	PCD-25-1400A	+40-58V @ 0-0.35A	20.3	90-135 @ 47-63	3.3 x 2.2 x 1.2	—	—	—	UL/CSA/EN/IP/TUV	17.95	15.95
2140710	Mean Well	LPF-60-42	+42V @ 0-1.43A	60.06	90-305 @ 47-63	6.4 x 1.7 x 1.3	IP67	0.5	0.5	UL/EN/IP/TUV	28.95	25.95
2101121	Mean Well	LPC-20-350	+48V @ 0-0.35A	16.8	90-264 @ 47-63	4.6 x 1.4 x 1.0	IP67	2.0	1.0	UL/CUL	10.95	9.95
2102633	Mean Well	LPV-60-48	+48V @ 0-1.25A	60	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2	1	CAN/CSA/EN/IP/TUV/UL	16.95	15.49
2210773	Mean Well	LPF-60D-48.	+48V @ 0-1.25A	60	90-277 @ 47-63	6.4 x 1.7 x 1.3	IP67	0.5	0.5	—	29.95	26.95
2100591	Mean Well	PLN-60-48	+48V @ 0-1.3A	62.5	90-295 @ 47-63	7.1 x 2.4 x 1.4	IP64	5.0	3.0	UL/CUL/TUV/CSA/CE/PFC	29.95	27.95
2215128	Mean Well	PWM-90-48	+48V @ 0-1.88A	90.24	90-305 @ 47-63	6.7 x 2.5 x 1.5	IP67	—	—	UL/CUL	47.95	43.95
2215291	Mean Well	LPV-150-48	+48V @ 0-3.2A	153.6	180-305 @ 47-63	7.5 x 2.5 x 1.5	IP67	2	1	UL/CUL/CE	39.95	36.95
2109042	Mean Well	HLG-240H-48A	+48V @ 0-5A	240	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP65	0.5	0.5	UL/TUV/EN/IP	79.95	72.95

*Primary output   **Dimmable

Mounting Brackets & Accessories for Mean Well Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

★ **Web Code: MBM**

Part No.	Mfr. P/N	For Models	1	10
222122	DRL-01	S-25/40, RS-25/35	$.99	$.89
222131	DRL-02	S-50/60/100/150, SP-100/150/200, D-120	1.25	1.09
222148	DRL-03	S-240/320, SP-320	1.49	1.25
222165	DRP-02	S-15/25, SP-75/100/150/200	1.49	1.35
222173	DRP-03	All Models	1.49	1.25
222182	MHS012	S-320/350, SP-100/150/200/320	.49	.39
2172666	2026.0	DR, DRH, DRP, DRT, MDR, TDR	5.95	4.95
248736	2094.0	DR, DRH, DRP, DRT, MDR	8.95	7.95
2150379	TBC-07	D/ID, NED, RD, NES, RS, T, S, SD, HRP, SC	.35	.29

L   H
W

222122 4.35"L x 1.73"W x 2.52"H
222148 7.875"L x 2.48"W x 1.80"H

222165
3.2"L x 2.0"W x 0.3"H

222182
.767"L x .60"W x .625"H

2172666 (Unslotted)
DIN Mounting Rail
Length: 1 meter

248736 (Slotted)
DIN Mounting Rail
Length: 1 meter

2150379
2.25"L x 0.4"W
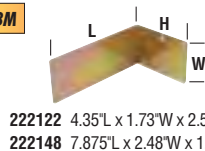
Mating Connector
103588 $1.70/10
Spade Solderless Terminal

Crimp Tool
72996 $24.95
Solderless Terminal Crimp Tool

Pricing & specs on page 64

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3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

DIN-Rail Switching Power Supplies

DIN-Rail Switching Power Supplies

NEW MARKED IN PINK

cULus CE

★ Web Code: RBY

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test
- For DIN mounting rail, see page 111

UL-508

- For DIN-Rail terminal blocks see pg 63
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- Rail not included

Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4

Fig. 5 | Fig. 6 | Fig. 7 | Fig. 8 | Fig. 9 | Fig. 10 | Fig. 11 | Fig. 12 | Fig. 13 | Fig. 14 | Fig. 15

Part No.	Mfr. Part No.	Fig.	Output Volts @ Curr.	Pwr (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Size (L" x W" x H")	Wt. (lbs.)	Certification	1	10
2103978	MDR-10-5	2	5VDC @ 2A	10	88-264 @ 47-63	0.33A(115V)/0.21A(230V)	3.5 x .89 x 3.9	0.4	UL/CUL/TUV/CB/CE	$12.95	$11.95
2101243	DR-15-5	9	5VDC @ 2.4A	12	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	1.0 x 3.7 x 2.2	0.2	UL/CUL/TUV/CE	12.95	11.95
1943300	MDR-20-5	2	5VDC @ 3A	15	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	14.95	13.49
373174	DR-30-5	1	5VDC @ 3A	15	85-264 @ 47-63	1.1A(115V) / 0.6A(230V)	3.1 x 3.7 x 2.2	0.5	UL/CUL/TUV/CE	15.95	14.49
212303	DR-4505	3	5VDC @ 5A	25	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.9	UL/CUL/TUV/CE	18.95	16.95
1943393	MDR-40-5	4	5VDC @ 6A	30	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CUL/TUV/CE	19.95	17.95
1943449	MDR-60-5	4	5VDC @ 10A	50	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	21.95	19.95
1952978	MDR-10-12	2	12VDC @ 0.84A	10	85-264 @ 47-63/120-370	0.33A(155V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	12.95	11.95
2094952	DR-15-12	9	12VDC @ 1.25A	15	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	UL/CUL/TUV/CE	12.95	11.95
1943334	MDR-20-12	2	12VDC @ 1.67A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	14.95	13.49
373182	DR-30-12	1	12VDC @ 2A	24	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	UL/CUL/TUV/CE	15.95	14.49
1943406	MDR-40-12	4	12VDC @ 3.33A	40	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CUL/TUV/CE	19.95	17.95
192699	DR-4512	3	12VDC @ 3.5A	42	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	UL/CUL/TUV/CE	18.95	16.95
373230	DR-60-12	1	12VDC @ 4.5A	54	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	UL/CUL/TUV/CE	23.95	21.95
1943457	MDR-60-12	4	12VDC @ 5A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	21.95	19.95
212291	DR-75-12	6	12VDC @ 6.3A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	UL/CUL/TUV/CE	30.95	27.95
1943511	DR-100-12	1	12VDC @ 7.5A	90	85-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	3.9 x 3.7 x 2.2	0.8	UL/CUL/TUV/CE	30.95	27.95
1943481	MDR-100-12	5	12VDC @ 7.5A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	UL/CUL/TUV/CE	37.95	34.95
212274	DR-120-12	7	12VDC @ 10A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	UL/CUL/TUV/CE	37.95	34.95
2099366	SDR-120-12†	8	12VDC @ 10A	120	88-264/124-370 @ 47-63	1.4A(115V)/10.7A(230V)	4.5 x 1.6 x 4.9	1.5	UL/CUL/TUV/CE	59.95	53.95
2123047	WDR-120-12	14	12VDC @ 10A	120	180-550 @ 47-63	0.55A(400V)/1.2A(230V)	4.5 x 1.6 x 4.9	0.2	UL/CUL/CB/CE	64.95	58.95
2101391	DR-15-15	9	15VDC @ 1A	15	88-264 @ 47-63	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	UL/CUL/TUV/CB/CE	12.95	11.95
1943342	MDR-20-15	2	15VDC @ 1.24A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	14.95	13.49
373191	DR-30-15	1	15VDC @ 2A	30	85-264 @ 47-63	0.88A(115V)/0.48A(230)	3.1 x 3.7 x 2.2	0.6	UL/CUL/TUV/CE	15.95	14.49
373238	DR-60-15	1	15VDC @ 4A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	UL/CUL/TUV/CE	21.95	20.95
1952986	MDR-10-24	2	24VDC @ 0.42A	10	85-264 @ 47-63/120-370	0.33A(115V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	12.95	11.95
2100873	DR-15-24	9	24VDC @ 0.63A	15.2	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	2.2 x 1.0 x 3.7	0.2	UL/CUL/TUV/CE	12.95	11.95
1943385	MDR-20-24	2	24VDC @ 1A	24	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	14.95	13.49
373203	DR-30-24	1	24VDC @ 1.5A	36	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	UL/CUL/TUV/CE	15.95	14.49
1943422	MDR-40-24	4	24VDC @ 1.7A	40.8	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CUL/TUV/CE	19.95	17.95
192681	DR-4524	3	24VDC @ 2A	48	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	UL/CUL/TUV/CE	18.95	16.95
1943465	MDR-60-24	4	24VDC @ 2.5A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	21.95	20.95
373246	DR-60-24	1	24VDC @ 2.5A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	UL/CUL/TUV/CE	21.95	20.95
212282	DR-75-24	6	24VDC @ 3.2A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	UL/CUL/TUV/CE	30.95	27.95
2190320	SDR-75-24	13	24VDC @ 3.2A	76.8	88-264 @ 47-63	1.4A(115V)/0.85A(230V)	4.0 x 1.25 x 4.9	0.4	UL/CUL/TUV/CE	34.95	31.95
1943490	MDR-100-24	5	24VDC @ 4A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	UL/CUL/TUV/CE	37.95	34.95
1943537	DR-100-24	1	24VDC @ 4.2A	100	88-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	2.2 x 3.9 x 3.7	0.8	UL/CUL/TUV/CE	30.95	27.95
212266	DR-120-24	7	24VDC @ 5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	UL/CUL/TUV/CE	37.95	34.95
1953727	DRH-120-24	7	24VDC @ 5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	UL/CE	54.95	49.95
2099374	SDR-120-24†	8	24VDC @ 5A	120	88-264/124-370 @ 47-63	1.4A(115V)/10.7A(230V)	4.5 x 1.6 x 4.9	1.5	UL/CUL/TUV/CE	59.95	53.95
2123055	WDR-120-24	14	24VDC @ 5A	120	180-550 @ 47-63	0.55A(400V)/1.2A(230V)	4.5 x 1.6 x 4.9	0.4	UL/CUL/CB/CE	64.95	58.95
221892	DRP-240-24†	10	24VDC @ 10A	240	85-264 @ 47-63/120-370	2.8A(115V)/1.4A(230V)	3.9 x 4.9 x 4.9	2.4	UL/CUL/TUV/CE	59.95	53.95
373123	DRT-240-24	10	24VDC @ 10A	240	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	UL/CUL/TUV/CE	74.95	67.95
2081086	SDR-240-24†	8	24VDC @ 10A	240	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	2.5 x 4.9 x 4.5	2.5	UL/CUL/TUV/CE	99.95	89.95
2150096	WDR-240-24	15	24VDC @ 10A	240	180-264 @ 47-63	1A(400V)/ 2A(230V)	4.5 x 2.5 x 4.9	2.2	UL/CUL/CB/CE	124.95	114.95
252663	DRP-480-24†	11	24VDC @ 20A	480	180-264 @ 47-63/250-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	99.95	89.95
295938	DRP-480S-24†	11	24VDC @ 20A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	109.95	99.95
372577	DRT-480-24	11	24VDC @ 20A	480	3-phase 340-550 @ 47-63/480-780	1.7A(400V)/1.3(500V)	8.9 x 5.0 x 3.9	5.5	UL/CUL/TUV/CE	114.95	104.95
2094944	SDR-480-24†	12	24VDC @ 20A	480	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	4.9 x 3.4 x 5.0	4.9	UL/CUL/TUV/CE	139.95	129.95
373131	DRT-960-24	11	24VDC @ 40A	960	340-550 @ 47-63	2A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	UL/CUL/TUV/CE	209.95	194.95
1943431	MDR-40-48	2	48VDC @ 0.83A	40	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CB/TUV/CE/CUL	19.95	17.95
1943473	MDR-60-48	4	48VDC @ 1.25A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	21.95	19.95
221866	DR-75-48	6	48VDC @ 1.6A	75	85-264 @ 47-63	2A(115V)/ 1.2A(230V)	3.9 x 2.2 x 4.9	1.7		30.95	27.95
221904	DR-120-48	7	48VDC @ 2.5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	UL/CUL/TUV/CE	37.95	34.95
2107338	SDR-120-48	8	48VDC @ 2.5A	120	88-264 @ 47-63	1.4A(115V)/0.7A(230V)	4.9 x 1.6 x 4.5	1.5	UL/CUL/TUV/CB/CE	59.95	53.95
221883	DRP-240-48†	10	48VDC @ 5A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	UL/CUL/TUV/CE	59.95	53.95

*Switch selectable   †With Power Factor Correction

DIN-Rail Switching Power Supplies (Continued)

Part No.	Mfr. Part No.	Fig.	Output Volts @ Curr.	Pwr (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Size (L" x W" x H")	Wt. (lbs.)	Certification	1	10
2094936	SDR-240-48†	8	48VDC @ 5A	240	88-264 @ 47-63/120-370	2.6A(115V)/1.3A(350V)	2.5 x 4.9 x 4.5	2.5	UL/CUL/TUV/CE	$99.95	$89.95
252655	DRP-480-48†	11	48VDC @ 10A	480	180-264 @ 47-63/250-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	99.95	89.95
301306	DRP-480S-48†	11	48VDC @ 10A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	104.95	99.95
2107346	SDR-480-48	12	48VDC @ 10A	480	90-264 @ 47-63	5A(115V)/2.5A(230V)	4.9 x 3.4 x 5.1	3.5	UL/CUL/TUV/CB/CE	149.95	134.95

*Switch selectable   †With Power Factor Correction

40A DC DIN-Rail UPS Module & 20A Power Supply Redundancy Module

Part No.	Mfr. Part No.	Description	DC Input/DC BUS	Output Voltage @ Current	Charge Current	Certification	1	10
2103273	DR-UPS40	Battery controller for UPS	24-29V @ 40A	21-29VDC @ 0-40A	2A	CE	$41.95	$37.95
2105009	DR-RDN20	2-input redundancy module	21-28V @ 20A	30V @ 20A	—	CE	24.95	23.49

2103273
(Rail not included)

15 to 504-Watt Enclosed Converters

- 2:1 wide input range
- 100% burn-in test
- Working temp.: -10°C to +60°C
- Protection: short-circuit, overload and overvoltage

SD-15 Series • Built-in EMI filter, low ripple noise • One-year warranty

SD-25/SD-50/SD-150 Series • Isolation voltage: 1500VDC • Built-in EMI filter, low ripple noise • One-year warranty

SD-200 Series • Isolation volt.: 1500VDC • Cooling by free air convection • Fixed switching freq @ 83kHz • **SD-200:** One-year warranty; **SD-350:** Two-year warranty

SD-500 Series • Isolation voltage: 2000VAC • DC input active surge current limiting

- Wide 4:1 ~ 2:1 SC input range
- Forced air cooling by built-in DC fan w/ fan speed control function
- Three-year warranty

SD-150

Part No.	Mfr. Part No.	Input Range	Output Voltage @ Current	Power (W)	Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Certification	1	10
1953778	SD-15A-5	9.2-18V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	CE	$12.49	$11.49
1953786	SD-15B-5	18-36V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	CE	12.49	11.49
175662	SD-25A-5	9-18V	+5V @ 5.0A	25	3.9 x 3.8 x 1.4	5	0.5	0.5	100	CE	19.95	17.95
212549	SD-50A-5	9-18V	+5V @ 10A	50	6.3 x 3.8 x 1.5	5	0.5	0.5	100	CE	26.95	24.49
1953823	SD-15B-12	18-36V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	CE	12.49	11.49
1953840	SD-15C-12	36-72V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	CE	12.49	11.49
175805	SD-25A-12	9-18V	+12V @ 2.1A	25.2	3.9 x 3.8 x 1.4	5	0.3	0.3	120	CE	21.95	19.95
1537483	SD-50A-12	9.2-18V	+12V @ 4.2A	50.1	6.3 x 3.8 x 1.5	5	0.3	0.3	120	CE	26.95	24.49
212531	SD-50B-12	19-36V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	CE	26.95	24.49
212506	SD-50C-12	36-72V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	CE	26.95	24.49
217270	SD-150B-12	19-36V	+12V @ 12.5A	150	7.8 x 4.3 x 2.0	7	0.5	0.5	120	CE	43.95	39.95
1953920	SD-200C-12	36-72V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	120	CE	71.95	64.95
1954033	SD-500L-12	19-72V	+12V @ 40A	480	8.5 x 4.5 x 2.0	7	0.5	0.5	150	CE	134.95	119.95
175813	SD-25A-24	9-18V	+24V @ 1.1A	26.4	3.9 x 3.8 x 1.4	5	0.2	0.2	150	CE	20.95	19.49
2107266	SD-50A-24	9.2-18V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	CE	26.95	24.49
212514	SD-50B-24	19-36V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	CE	26.95	24.49
2107039	SD-100C-24	36-72V	+24V @ 4.2A	100.8	7.8 x 3.9 x 1.6	7	0.2	0.2	150	CE	33.95	30.95
2107098	SD-150C-24	36-72V	+24V @ 6.3A	151.2	7.8 x 4.3 x 2.0	7	0.3	0.3	150	CE	43.95	39.95
2107119	SD-150D-24	72-144V	+24V @ 6.3A	151.2	7.8 x 4.3 x 2.0	7	0.3	0.3	150	TUV/CE	43.95	39.95
1953954	SD-200B-24	19-36V	+24V @ 8.4A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	CE	71.95	64.95
1953971	SD-350B-24	19-36V	+24V @ 14.6A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	CE	79.95	74.95
1953911	SD-200B-48	19-36V	+48V @ 4.2A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	CE	71.95	64.95
1953989	SD-350B-48	19-36V	+48V @ 7.3A	350.4	8.5 x 4.5 x 2.0	9	0.3	1.0	120	CE	84.95	79.95

Encapsulated DC-to-DC Converters

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Shield metal case
- 2:1 wide input range
- Cooling by free air convection
- One-year warranty

SLW05   SKE10   DKE10

Part No.	Mfr. Part No.	Input Range	Output Voltage @ Current	Pwr (W)	Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Certification	1	10
1953313	SCW05B-05*	18-36V	+5V @ 1A	5	1.25 x 0.8 x 0.48	8	0.5	0.5	50	CE	$9.49	$8.49
216937	SLW05B-05*	18-36V	+5V @ 1A	5	2.0 x 1.0 x 0.44	5	1.0	0.2	100	CE	10.95	9.95
213234	SLW05C-05*	36-72V	+5V @ 1A	5	2.0 x 1.0 x 0.44	5	1.0	0.2	100	CE	12.95	11.95
216962	SKE10A-05*	9-18V	+5V @ 2A	10	2.0 x 1.0 x 0.44	5	0.3	1.0	50	CE	18.95	16.95
155716	SKE15A-05*	9-18V	+5V @ 3A	15	2.0 x 2.0 x 0.43	5	0.3	0.5	50	CE	18.95	16.95
155708	SKE15A-12*	9-18V	+12V @ 1.25A	15	2.0 x 2.0 x 0.43	5	0.3	0.5	60	CE	16.49	15.49
155695	SKE15A-24*	9-18V	+24V @ 0.625A	15	2.0 x 2.0 x 0.43	5	0.3	0.5	80	CE	18.95	16.95
155919	DCW03A-05**	9-18V	±5V @ 0.3A	3	1.25 x 0.8 x 0.48	10	1.0	0.5	100	CE	9.95	8.95
161702	DCW03A-12**	9-18V	±12V @ 0.125A	3	1.25 x 0.8 x 0.48	10	1.0	0.5	100	CE	9.95	8.95
217092	DKE10A-12**	9-18V	±12V @ 0.42A	10	2.0 x 1.0 x 0.44	5	0.3	0.5	60	CE	18.95	17.49
217112	DKE10A-15**	9-18V	±15V @ 0.333A	10	2.0 x 1.0 x 0.44	5	0.3	0.5	60	CE	18.95	17.49

*Single output   **Double output

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Power

Lithium, NiCd, NiMH, Li-Ion & LiFePO4 Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

Lithium – Non-rechargeable
Coin Cell

★ Web Code: LBT

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
2123784	CR1220	Evergreen	1	CR1220	3	40	0.49"Dia. x 0.77"Thick	$.85	$.75	$.65
2210010	CR1220-LEADS§	ReliaPro	3	CR1220	3	40	0.49"Dia. x 0.77"Thick	.89	.79	.69
2119865	CR1632	Evergreen	1	CR1632	3	120	0.63"Dia. x 0.13"Thick	.99	.89	.79
2167509	CR2025-2*	Energizer	1	CR2025	3	162	0.79"Dia. x 0.10"Thick	1.49	1.25	1.09
14162	CR2032	Renata	1	CR2032	3	180	0.79"Dia. x 0.13"Thick	1.09	.99	.85
11789	CR2325	ReliaPro	1	CR2325	3	165	0.91"Dia. x 0.13"Thick	1.79	1.59	1.45
2132251	CR2450C†	FDK	2	CR2450	3	550	0.95"Dia. x 0.20"Thick	.89	.79	.69
2119216	CR2450	Evergreen	1	CR2450	3	550	0.95"Dia. x 0.20"Thick	1.59	1.45	1.29
2133561	2CR2450††	NewSun	3	CR2450	3	1100	0.95"Dia. x 0.43"Thick	1.59	1.45	1.29
2158231	CR927	ReliaPro	1	CR927	3	30	0.37"Dia. x 0.10"Thick	.49	.45	.39

*Sold in multiple of 2   †1.5" wire w/ connector   ††(2p) 3" w/ connector   § 2" wire leads

Pressure Fit

126754	TL-5101S	Tadiran	4	1/2 AA	3.6	950	0.95"L x 0.56"Dia.	$4.95	$4.49	$4.09
240266	ER14250	ReliaPro	4	1/2 AA	3.6	1000	1.00"L x 0.55"Dia.	3.55	3.25	2.95
2188561	LS14250	Saft	4	1/2 AA	3.6	1200	1.00"L x 0.56"Dia.	4.95	4.49	4.25
146114	TL-5104/S	Tadiran	5	AA	3.6	2100	1.91"L x 0.56"Dia.	6.95	6.25	5.65
240258	CR123A	Evergreen	6	CR123A	3	1300	1.36"L x 0.65"Dia.	2.75	2.49	2.25

Axial Leads

33371	TL-5101P	Tadiran	7	1/2 AA	3.6	950	0.93"L x 0.56"Dia.	$6.25	$5.65	$4.95
263898	ER14250	ReliaPro	7	1/2 AA	3.6	1000	1.00"L x 0.55"Dia.	4.75	4.25	3.85
33398	TL-5104/P	Tadiran	8	AA	3.6	2100	1.88"L x 0.56"Dia.	6.95	6.25	5.65

NiCd – Rechargeable – Pressure Fit

★ Web Code: GCF

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
261657	AA-700-CT	ReliaPro	5	AA	1.2	700	1.90"L x 0.55"Dia.	$1.69	$1.49	$1.35
244515	AA-1000-CT	ReliaPro	5	AA	1.2	1000	1.90"L x 0.55"Dia.	2.75	2.49	2.25
244574	SC-1500	ReliaPro	9	Sub-C	1.5	1500	1.70"L x 0.89"Dia.	2.75	2.49	2.25

NiMH – Rechargeable
Pressure Fit

★ Web Code: GCF

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
231095	10405	Tenergy	10	AAA	1.2	1000	1.70"L x 0.40"Dia.	$3.49	$3.15	$2.79
231087	AA-1800NM	Dantona	5	AA	1.2	1800	1.90"L x 0.55"Dia.	3.49	3.15	2.79
2162724	AA2500APZ	Powerizer	5	AA	1.2	2500	1.90"L x 0.55"Dia.	2.95	2.75	2.49
2197492	AA2500-4*	Powerizer	5	AA	1.2	2500	1.90"L x 0.55"Dia.	8.95	7.95	6.49
2127777	AA-2500CT	Tenergy	5	AA	1.2	2500	1.90"L x 0.55"Dia.	3.95	3.55	3.19
244620	10005	Tenergy	11	9V	8.4	200	1.94"L x 0.65"Dia.	9.75	8.75	7.95

*Pack of 4

PC Pin (2 & 3 pin)

2137473	NHB60H3A2H	Evergreen	12	2 pin	3.6	80	0.72"L x 0.61"Dia.	$4.49	$3.95	$3.55
2129342	COMP-16-3NMH	Dantona	12	3 pin	3.6	80	0.72"L x 0.61"Dia.	5.25	4.95	4.69

Li-Ion – Rechargeable – Pressure Fit

★ Web Code: LII

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
2144286	30201	Tenergy	6	RCR123A	3	900	1.26"L x 0.63"Dia.	$4.69	$4.49	$4.25
2140349	30006	Tenergy	13	18650	3.7	2600	2.56"L x 0.72"Dia.	9.95	9.49	8.95

LiFePO4 – Rechargeable
Pressure Fit

★ Web Code: LIF

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
2144227	30225	Tenergy	5	14500	3.2	400	1.91"L x 0.56"Dia.	$2.25	$1.95	$1.75
2144278	30200	Tenergy	6	RCR123A	3.2	900	1.26"L x 0.63"Dia.	2.95	2.65	2.39

2 Tabs

2144294	30207	Tenergy	14	Prismatic	3.2	10000	9.0"L x 3.2"W x 0.3"T	$34.95	$32.95	$29.95

EVERGREEN   **TADIRAN BATTERIES**

Fig. 1   Fig. 2   Fig. 3
Fig. 4   Fig. 5   Fig. 6
Fig. 7   Fig. 8
Fig. 9   Fig. 10   Fig. 11
Fig. 12   Fig. 13   Fig. 14

12V Lithium-Ion Rechargeable Battery Pack

High-powered, ultra-compact, covert battery pack with charger. Provides the same power as larger batteries at a fraction of the size and weight.

- Charging adapter included
- On/Off switch
- LED indicators
- 18" power cord
- Input: 110-230VAC 50/60Hz
- Output: 12.6VDC, 350mA   • 4500 mAh
- Connection: 2.1mm female output, 2.1mm male input
- Size: 3.0"L x 2.0"W x 0.75"H   • Weight: 0.58 lbs.
- **Initial charge should be 24 hours before use**

Part No.	Description	1	10
2129351	LBP-124500	$54.95	$49.95

USB Li-Ion/LiPoly Charger

- Assembled. Includes bonus 2-pin JST cable
- For 3.7/4.2V (not compatible with 3.6/4.1V cells)
- Connect via USB mini-B
- 500mA default fast-charge current
- Battery and USB cable sold separately
- 0.1" breakouts for battery, DC and status LEDs
- Size: 1.3"L x 1.4"W x 0.3"H

Part No.	Mfr. Part No.	1	5
2144366	259	$17.95	$15.95

Batteries

Evergreen, Energizer® & Duracell® Alkaline Batteries

198731   198791   215845   2112461   2158493   2112444   2112436   198707   198715

★ Web Code: NBF

Blowout Prices

Part No.	Size	Min	1	12
2112461	9V, Super Alkaline Evergreen††	2	$1.25	$1.09
2158493	1.5V, AA Microbatt††*	2	.35	.29
2112444	1.5V, AA Evergreen†	4	.45	.39
2112436	1.5V, AAA Evergreen††	2	.49	.45

Part No.	Size		1	10
198731	9-volt Energizer®		$2.25	$1.95
198791	9-volt Duracell® Procell®		2.95	2.65
215845	1.5V D-cell Energizer®		1.19	1.09

Part No.	Size	Min	1	40	100
198707	1.5V, AA Energizer®†	4	$.79	$.69	$.65
198715	1.5V, AAA Energizer®†	4	.69	.59	.55

† Sold in multiples of 4   †† Sold in multiples of 2   *Cadmium

Silver Oxide and Zinc Chloride Batteries

Applications: Personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers / descramblers and remotes.

★ Web Code: XAB

140783   151095   2183699

Part No.	Cross Ref.	Description	1	10
140783	357	Silver oxide, button, 1.55V, 175mAh	$1.39	$1.25
2119822	ER03MSG	Zinc chloride, 1.5V, AAA	.59	.49
151095	GF6F22	Zinc chloride, 9V	1.29	1.19
2183699	4R25-EV	Zinc chloride, 6V, 7400mAh	4.25	3.95

Smart Balancing Battery Chargers

For NiMH / NiCD / Li-PO / LiFePO4 / SLA

★ Web Code: LAC

- Protective circuitry to control charging process and auto power cut-off
- Built-in balancer automatically balances batteries during charging, ensuring full charge
- Advanced individual charging method can charge each cell individually and safely

2144315   2144235

Part No.	Mfr. Part No.	Compatible Chemistry	Compatible Battery Size	Output	1	5	25
2144315	01267	Li-Ion, Li-PO, LiFePO4	1S-4S battery packs w/ XH connector	3.6-16.8V @ 1A	$22.95	$21.95	$20.95
2144235	01322	NiMH, NiCd, Li-Ion, LiFePO4, LiPO, SLA (Pb)	Octopus harness – HiTech, JST, Tamiya, Deans, Traxxas and EC3 connectors	0.1-5A (50W max.)	84.95	74.95	69.95

7.4V LiPo BATTERY

- 2200mAh
- 20C cont. discharge
- Arduino-compatible 2.1mm DC power jack
- Can be recharged by 9V DC power supply

P/N 2167787 $24.95

Universal NiCd/NiMH Charger

- Fast charging in the specified period with an automatic switch for trickle charge
- Built-in IC timer control

★ Web Code: LAC

Part No.	Mfr. Part No.	Compatible Battery	1	10	25
231132	CHG-6P	AAA, AA, C, D, 9V	$22.95	$19.95	$17.95

Wall Type NiMH/NiCd Battery Charger

- Input voltage: 120VAC @ 60Hz
- Output power: 1.2VA
- 2 individual charging channels
- Retractable AC prongs
- LED indicator and reverse polarity protection

Part No.	Mfr. Part No.	Description	1	10	25
2197505	KN-101	AA/AAA/9V charger	$9.95	$8.95	$7.95

Compact Battery Testers

Simply lift the swivel arm of this tester and place the battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, 9V and button cell batteries.

Part No.	Mfr. Part No.	Description	1	10
239556	BATTEST	Analog meter display	$4.49	$3.95
2130811	BATTEST2	LCD display	13.95	12.95

Portable Li-Ion Power Banks

Recharge the power bank via 5V USB micro-B. 4-in-1 multi-use USB cable included to charge iPhone/iPod/iPad, iPhone5/iPad (Lightning) and USB micro-B.

2192608   2192632

★ Web Code: XEL

Part No.	Mfr. Part No.	Output	mAh	Color	1	5
2192587	KSLP26-WT	5V @ 1A	2600	White	$17.95	$15.95
2192595	KSLP26-BK	5V @ 1A	2600	Black	17.95	15.95
2192608	KSLP26-PK	5V @ 1A	2600	Red	17.95	15.95
2192616	KSLP26-BL	5V @ 1A	2600	Blue	17.95	15.95
2192632	MDXL78-WT*	5V @ 1A/2A	7800	White	29.95	26.95
2205376	PWUSB002	4-in-1 cable	—	White	9.95	8.49

*Built-in LED flashlight

120-Watt Single Output Battery Charger

- Current detecting battery charger for lead-acid batteries
- Voltage range: 88~132VAC/176~264VAC (47~63Hz) selected by switch
- Power: 118.7W; 27.6V @ 4.3A
- Short circuit, overload, over-voltage, over-temp. protection
- Output conn.: 3-pin male XLR, see pg 49 for mating connector
- 3 pole AC inlet with fuse holder
- Two-year warranty
- Complete specifications on page 115

★ Web Code: LAC

Part No.	Mfr. Part No.	Size (L" x W" x H")	Wt. (lbs.)	1	5
2102983	PB-120N-27C	7.09 x 3.78 x 1.93	2.4	$44.95	$39.95

13.5VDC @ 2.2A Switch Mode Battery Charger

- Input voltage: 100 to 240VAC @ 50-60Hz
- Output voltage: 13.5V @ 2.2A
- Output connector: 30" cable with 4-position (2 x 2 grid) Molex Mini-Fit Jr. 5559 series connector (39-01-2041)
- UL/CUL listed

★ Web Code: LAC

Includes: 5' 3-prong Mickey Mouse type power cord

Part No.	Mfr. Part No.	Size (L" x W"x H")	1	10	25
2139006	3G-301DN13	7.09 x 3.78 x 1.93	$7.95	$6.95	$5.95

Auxiliary Power Supply/Charger

This power supply / charger provides 6VDC or 12VDC at 1.5A output for powering alarm devices. Voltage is user selectable by positioning the output jumper to the desired voltage. Green LED remains on as long as AC power is connected to the terminal strip and red LED remains on as long as DC power is available at the terminal strip

- Power supply output (to power supply back-up battery, 12V mode charging voltage 13.6VDC at 130mA max)
- Power supply output to load: 13.6VDC at 1.5A max. (without battery backup)
- Recommended back-up battery: standard 4AH, sealed acid type
- Includes adhesive strips for mounting

Part No.	Mfr. Part No.	Size (L" x W" x H")	1	10	25
2197821	MG1261.5A	4.0 x 2.0 x 1.6	$10.95	$9.95	$8.95

3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Batteries

3 LEVELS OF SAVINGS | NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

JAMECO **ReliaPro** ## Coin Cell, Single and Dual-Sided Battery Holders

★ *Web Code: UAB*   NEW MARKED IN PINK

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, tabs or snaps.

Part No.	Cross Ref. No.	*Mfr.	Fig.	No. of Cells	Conn. (L")	Sides	Features*	1	10	100	500
216283	BH-421-1A	JRP	1	2-AAA	Wires, 5.5	Single	26 AWG	$.59	$.55	$.49	$.45
2197935	BC-0302	JRP	26	1-AA/AAA	PC mount	Single	.3" (2mm) spacing	.29	.25	.22	.19
216292	SBH-421-AS*	JRP	1	2-AAA	Wires, 5.5	Single	w/ cover&sw, 26 AWG	.79	.75	.69	.65
216303	BH-431-1A	JRP	2	3-AAA	Wires, 5.5	Single	26 AWG	.79	.69	.65	.59
216312	SBH-431-1AS*	JRP	2	3-AAA	Wires, 6.0	Single	w/ cover&sw, 26 AWG	.95	.85	.75	.69
216339	SBH-441-AS*	JRP	3	4-AAA	Wires, 5.5	Single	w/ cover&sw, 26 AWG	1.45	1.29	1.19	.89
216072	BH-311-2A	JRP	4	1-AA	Wires, 5.5	Single	26 AWG	1.05	.95	.85	.75
216081	BH-321-2A	JRP	1	2-AA	Wires, 5.5	Single	26 AWG	.75	.69	.59	.55
216099	BH-321-4A	JRP	1	2-AA	Wires, 5.5	Single	w/ mnt. tabs, 26 AWG	.65	.59	.55	.49
216102	SBH-321-2A	JRP	5	2-AA	Wires, 5.5	Single	w/ cover, 26 AWG	.75	.69	.59	.55
216120	SBH-321-1AS*	JRP	5	2-AA	Wires, 5.5	Single	w/ cover&sw, 26 AWG	.89	.79	.72	.65
2151224	140	KEY	22	2-AA	Solder lugs	Single	Metal holder	1.49	1.25	.99	.89
216136	BH-331-A	JRP	2	3-AA	Wires, 5.5	Single	26 AWG	.85	.77	.69	.62
216144	SBH-331-AS*	JRP	6	3-AA	Wires, 6.0	Single	w/ cover&sw, 26 AWG	.79	.69	.65	.59
2207013	4XAA-2.1	JRP	26	4-AA	Plug, 5.0	Single	2.1mm plug, 22 AWG	2.95	2.65	2.39	2.15
2111329	700-00038	PLX	26	4-AA	Wires, 10"	Single	2.1mm DC plug	4.95	4.49	3.95	3.49
216152	BH-341-2A	JRP	7	4-AA	Wires, 5.5	Single	26 AWG	1.15	1.05	.95	.85
105858	BH-PC §	JRP	8	4-AA	Wires, 5.5	Single	w/ conn., 26 AWG	.79	.69	.65	.59
216179	BH-343-1A	JRP	9	4-AA	Wires, 5.5	Dual	26 AWG	.79	.69	.65	.59
2191883	12BH341-GR	EAG	23	4-AA	Snaps	Dual	—	.85	.75	.65	.55
216187	SBH-341-1AS*	JRP	3	4-AA	Wires, 6.0	Single	w/ cover&sw, 26 AWG	1.05	.95	.85	.75
2095453	SBH-341-1A	JRP	3	4-AA	Wires, 5.5	Single	w/ cover, 26 AWG	.99	.89	.79	.69
216223	BH-364-A	JRP	10	6-AA	Wires, 5.5	Single	26 AWG	1.09	.95	.85	.75
2207021	6XAA-2.1	JRP	10	6-AA	Plug, 3.5	Single	2.1mm plug, 22 AWG	3.49	3.19	2.95	2.65
216240	BH-383-A	JRP	11	8-AA	Wires, 5.5	Dual	26 AWG	1.09	.95	.85	.75
216267	BH-383-B	JRP	11	8-AA	Snaps	Dual	—	1.29	1.19	1.09	.95
216259	BH-382-B	JRP	12	8-AA	Snaps	Dual	—	1.35	1.19	1.09	.79
2208235	12BH023-GR	EAG	27	1-A	PC mount	Single	1mm, 38mm apart	.99	.89	.75	.65
216347	BH-211-A	JRP	4	1-C	Wires, 5.5	Single	24 AWG	.65	.59	.55	.49
216363	BH-242-1A	JRP	13	4-C	Wires, 5.5	Single	24 AWG	1.09	.99	.89	.69
216371	BH-111-1A	JRP	4	1-D	Wires, 5.5	Single	26 AWG	.69	.65	.59	.49
216390	BH-121-1A	JRP	1	2-D	Wires, 5.5	Single	24 AWG	1.19	1.09	.95	.79
216401	BH-142-A	JRP	13	4-D	Wires, 5.5	Single	24 AWG	1.35	1.19	1.09	.89
2208243	12BH1/2AA-2P-GR	EAG	28	1- ½ AA	PC mount	Single	.8mm, 29mm apart	.99	.89	.79	.69
2208251	12BH1/2AA-2A-GR	EAG	28	1- ½ AA	Wires, 5.5"	Single	26 AWG	.99	.89	.75	.65
2128067	SBH-9VAS*	JRP	5	1-9V	Wires, 5.5	Single	w/ cover&sw, 26 AWG	1.39	1.25	1.09	.95
2207030	1X9V-2.1	JRP	14	1-9V	Plug, 5.0	Single	2.1mm plug, 22 AWG	2.95	2.65	2.39	2.15
2207048	1X9V-2.1 CS	JRP	29	1-9V	Plug, 5.5	Single	2.1mm plug, 22 AWG	3.95	3.55	3.19	2.95
216427	BH-9V-A	JRP	14	1-9V	Wires, 5.5	Single	26 AWG	.75	.69	.59	.55
11280	A104-R	JRP	15	1-9V	Wires, 2.5	Single	26 AWG, snaps	.39	.35	.29	.25
2191891	12BH079-GR	EAG	16	1-9V	—	Single	Metal holder, flat	.39	.35	.29	.25
105794	GBH-1009-R	JRP	16	1-9V	—	Single	Metal holder, side	.39	.35	.29	.25
2191904	121-0426/IM-GR	EAG	24	1-9V	Wires, 4.0	Single	w/ conn., 26 AWG	.69	.59	.49	.45
1949488	BAT-SNAP-4	JRP	17	1-9V	Wires, 3.5	Single	26 AWG, snaps	.29	.26	.23	.19
109154	BC6-R	JRP	17	1-9V	Wires, 5.5	Single	26 AWG, snaps	.29	.26	.23	.19
216452	SBS-IR-1-R	JRP	18	1-9V	Wires, 5.5	Single	26 AWG, snaps	.35	.32	.29	.25
101470	A102-R	JRP	17	1-9V	Wires, 10.0	Single	26 AWG, snaps	.35	.32	.29	.25
2207056	1X9V-2.1 SNAP	JRP	15	1-9V	Plug, 5.5	Single	2.1mm plug, 24 AWG	1.95	1.75	1.59	1.45
2203899	9VSNAPOB6	JRP	25	1-9V	Snaps	Single	PCB mount	.99	.89	.79	.69
2146231	BH-18650-2S	JRP	20	2-18650	Wires, 6.0	Single	26 AWG	1.95	1.75	1.59	1.45
38543	2S2325	JRP	19	1-0.85" dia. max	PC mount	Coin cell	CR2325 battery	.79	.69	.65	.59
355434	17002-00603	JRP	21	1-0.79" dia. max	PC mount	Coin cell	CR2325 battery	.79	.69	.65	.59

§ Battery holder used in older personal computers (1x4 pos. connector)   * SW = switch

Fig. 1   Fig. 2   Fig. 3

Fig. 4   Fig. 5   Fig. 6

Fig. 7   Fig. 8   Fig. 9

Fig. 10   Fig. 11   Fig. 12

Fig. 13   Fig. 14   Fig. 15   Fig. 16

Fig.17   Fig. 18   Fig. 19   Fig. 20

Fig. 21   Fig. 22   Fig. 23

Fig. 24   Fig. 25   Fig. 26

Fig. 27   Fig. 28   Fig. 29

HEAT SHRINK TUBING & WIRE MANAGEMENT PRODUCTS LOCATED ON PAGES 47-48

* JRP = Jameco ReliaPro | EAG = Eagle Plastics | KEY = Keystone | PLX = Parallax

Batteries

JAMECO®.COM

TYSONIC — Lead Acid Batteries

- Use with UPS backup systems, security fre alarms, wheel chairs, scooters
- Sealed   • UL approved   • Rechargeable
- One-year manufacturer warranty

★ **Web Code: LBR**

Part No.	Mfr. Part No.	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
2151996	TY-6-1.2	6	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.0 x 2.1	0.7	$6.95	$6.49
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	11.95	10.95
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	17.95	15.95
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	14.95	13.45
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	19.95	17.95
318924	LA-TY-12-3.4	12	3.4	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	21.95	19.95
264049	TY-12-5	12	5.0	—	—	—	—	Quick connect 0.187"	3.5 x 2.7 x 3.9	3.6	22.95	20.65
264057	TY-12-7.5	12	7.5	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	24.95	22.49
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.7	9.0	39.95	35.95
264073	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	49.95	44.95
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut and bolt	7.6 x 5.1 x 6.3	27.6	89.95	84.95
2170290	LFP128075	12.8	7.5	—	—	—	—	Quick connect 0.25"	5.9 x 2.6 x 3.9	2.66	99.95	89.95
2170329	LFP128198	12.8	19.8	—	—	—	—	Nut and bolt	7.1 x 3.0 x 6.5	6.84	249.95	234.95

MW — 360 & 1000-Watt Single Output Lead Acid Battery Chargers

★ **Web Code: LAC**

- Input: 115VAC/230VAC @ 47-64Hz (switch-selectable)
- **1952417/1954332/1954341**: Built-in passive PFC function
- Overload, short-circuit, reverse polarity, over voltage, over temperature protection
- **1952417/1954308/1954316**: Fan on/off control (depending on charging current)   • Charger for lead acid batteries
- **1954316**: Size: 10.0"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- **1952417/1954308**: Size: 9.3"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- **1954332/1954341**: Size: 11.8"L x 7.2"W x 2.8"H, Weight: 7.7 lbs.

1952417

Part No.	Mfr. Part No.	Watts	Boost Charge Voltage	Float Charge Voltage	Recommended Battery Capacity (AMP Hours)	Pricing	
						1	10
1952417	PB-360P-12	360	14.4	13.6	80-200	$94.95	$85.95
1954308	PB-360N-12	360	14.4	13.6	80-200	86.95	78.95
1954316	PB-360N-24	360	28.8	27.2	40-125	86.95	78.95
1954332	PB-1000-12	1000	14.4	13.8	200-600	269.95	249.95
1954341	PB-1000-24	1000	28.8	27.6	120-350	269.95	249.95

Portable Environment Data Loggers

- Store 65,520 samples with time stamp
- High and low alarm with dedicated LED
- Micro-USB connection for data upload
- 1.3"L x 0.6"W x 2.1"H
- Uses CR2450 battery

NEW MARKED IN PINK

SENSONICS

2213801   **2213798**

Part No.	Mfr. Part No.	Description	1	5
2213801	Minnow 1.0T	Temp: 5° to 60°C ±3°C	$59.95	$54.95
2213798	Minnow 1.0TH	Temp: 5° to 60°C ±3°C, RH: 20-80% ±3%	79.95	74.95

ROGUE — Serial Data Logger Module

★ **Web Code: DLG**

- Use for data logging (GPS, space/aircraft vehicle telemetry, industrial environment sensors, weather station data)
- Store script/code for MCU sequencing   • 3V-5V operation
- Support SD/SDHC/MMC/TF flash memory upto 32GB
- Interface with any MCU (PIC, AVR, 8051, Arduino, etc.)
- Store images and telemetry for robotics   • 2400-460800 bps serial

Part No.	Mfr. Part No.	Description	1	5
2135769	DS-MMC	Serial data logger module	$49.95	$44.95

LASCAR electronics — Environmental Data Loggers

★ **Web Code: DLG**   **NEW** MARKED IN PINK

USB Data Loggers

Measure and record temperature, humidity, voltage and current with EasyLog® USB data loggers. Connect directly into the USB port of a PC, choose a logger name, sample rate, alarm levels and start mode before recording. After data has been collected, it can be graphed and exported to Excel for further analysis. Free Windows software downloadable from www.easylogusb.com allows setup and data download. Units store up to 32,000+ readings with typical battery life of one year.

2075997

Part No.	Mfr. Part No.	Type	Price
2075989	EL-USB-1	Temperature	$54.95
2219209	EL-USB-1-LCD	Temp. with LCD	81.95
2075997	EL-USB-2	Temp. & humidity	74.95
2076367	EL-USB-2-LCD	Temp. & humidity w/ LCD	99.95
2076383	EL-USB-3	Voltage, 0-30VDC	69.95
2076391	EL-USB-4	Current loop, 4-20mA	69.95
2076412	EL-USB-TC-LCD	Thermocouple w/ LCD	99.95
2213827	EL-USB-TP-LCD	Thermistor probe w/ LCD	124.95
2184501	EL-DATAPAD	Handheld data collector	189.95

Data Loggers with Graphics LCD

The EasyLog® GFX range brings a more advanced feature set to the monitoring of temperature and humidity. The GFX products feature anincreased memory capacity (250,000 readings per channel), 0.1 digit resolution across all parameters, as well as a graphics display which shows real-time trend graphs and data summaries. An on-screen menu provides the capability for users to start, stop and restart the data logger in the field.

2218863

Part No.	Mfr. Part No.	Type	Price
2219217	EL-GFX-1	Temperature	$134.95
2219225	EL-GFX-2	Temp. & humidity	149.95
2218863	EL-GFX-TC	Thermocouple	154.95
2219233	EL-GFX-DTC	2-ch thermocouple	184.95
2219241	EL-GFX-TP	Temperature probe	154.95
2219250	EL-GFX-DTP	2-ch thermistor probe	184.95

WiFi Data Loggers

The WiFi range of temperature and humidity data loggers provides the capability to remotely monitor an environment. Data is uploaded periodically using a standard WiFi network without the need to physically collect and connect the units to a PC. Data can be collected on a host PC or uploaded to Lascar's Files Thru The Air™ Cloud Service. This allows them to be managed and monitored over the Internet from any location in the world. Users can interact with their sensors via a Web based interface allowing them to monitor multiple WiFi sensors in any number of locations.

2180156

Part No.	Mfr. Part No.	Type	Price
2219268	EL-WIFI-T	Temperature	$149.95
2180156	EL-WIFI-TH	Temp. & humidity	184.95
2219276	EL-WIFI-TC	Thermocouple	184.95
2219284	EL-WIFI-TP	Thermistor probe	149.95
2213691	EL-WIFI-ALERT	Monitoring system	184.95

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Batteries

See www.Jameco.com for complete specifications

3 LEVELS OF SAVINGS
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EXTECH 38073
P/N 1536843
$22.95

DT830B
P/N 1928476
$8.95

EXTECH MN35
P/N 645618
$24.95

EXTECH 381676
P/N 1537184
$49.95

DDM180 Pocket Sized
P/N 2193803
$10.99

DDM190D
P/N 2217191
$34.95

JAMECO BenchPro BP-1562
P/N 318781
$11.95

MASTECH MAS830L
P/N 220759
$16.95

MASTECH MAS838
P/N 220741
$19.95

DDM230B
P/N 2206053
$69.99

EXTECH EX330
P/N 645626
$64.95

EXTECH EX430
P/N 1581177
$99.95

EXTECH EX505
P/N 2094127
$119.95

FLUKE 115
P/N 1537328
$189.95

All meters come with probes/leads | ★ Web Code: HBK

Jameco Part No.	Manufacturer Part No.	Type	No. of Functions	Display Count	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Frequency Ranges (Hz)	Temperature Range °C	Temperature Range °F	Diode Test	Battery Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H" x W" x D")	Jameco Part No.	Pricing 1	Pricing 5
1536843	Extech 38073	AMM	6	1	—	2.5V - 300V	10V - 300V	0.5A - 250mA	—	10KΩ - 1MΩ	—	—	—	—	—	✔							3.5 x 6.1 x 1.9	1536843	$22.95	$20.95
1928476	Vastech DT830B	DMM	4	1999	1V	200mV - 1000V	200V - 750V	200µA - 10A	—	200Ω - 2MΩ	—	—	—	—	✔	✔	✔	✔					5.5 x 3.1 x 1.6	1928476	8.95	7.95
645618	Extech MN35	DMM	5	2000	100µV	200mV - 600V	200mV - 600mV	200mA - 10A	—	200Ω - 20MΩ	—	—	-20 to 750	-200 to 1400	✔		✔						5.4 x 3.0 x 1.5	645618	24.95	22.49
1537184	Extech 381676	DMM	5	2000	100µV	200mV - 600V	200m - 600V	—	—	200Ω - 20MΩ	—	—	—	—	✔		✔		✔				8.2 x 1.5 x 1.1	1537184	49.95	44.95
2193803	Dawson DDM180	DMM	6	1999	1mV	2V - 500V	200V -500V	200mA	—	2kΩ - 2000kΩ	—	—	—	—	—		✔		✔				9.4 x 3.7 x 1.9	2193803	10.99	9.95
2217191	Dawson DDM190D	DMM	6	2000	1V	200mV - 600V	200mV -600V	20mA-200mA	20mA-200mA	200Ω - 200Ω	—	—	—	—	✔		✔		✔				8.2 x 1.5 x 1.1	2217191	34.95	31.95
355207	Velleman DVM850BL	DMM	6	2000	100µV	200mV - 100V	200V - 750V	200µA - 10A	—	200Ω - 2MΩ	—	—	—	—	✔		✔	✔					5.4 x 2.7 x 1.2	355207	19.95	17.95
318781	BenchPro BP-1562	DMM	6	2000	1V	200mV - 1000V	200V - 750V	200µA - 10A	—	200Ω - 2MΩ	—	—	—	—	✔			✔					5.0 x 2.8 x 1.1	318781	11.95	10.95
2131127	Velleman DVM810	DMM	7	2000	1V	200mV - 500V	200mV - 500V	200µA - 10A	—	200Ω - 2MΩ	—	—	—	—	✔			✔					3.6 x 1.8 x 1.0	2131127	10.95	9.95
220759	Mastech MAS830L	DMM	7	2000	100µV	200mV - 600V	200V - 600V	200µA - 10A	—	200Ω - 2MΩ	—	—	—	—	✔		✔						5.7 x 3.0 x 1.4	220759	16.95	14.95
2113471	Fluke-87-5	DMM	7	6000	10uV	0 - 1000V	0 - 1000V	0 - 10A	0 - 10A	0 - 50M	0 - 9999µF	0 - 200K	-200 to 1090	-328 to 1994	✔		✔			✔		✔	7.4 x 3.4 x 1.3	2113471	419.95	399.95
220741	Mastech MAS838	DMM	8	2000	100µV	200mV - 600V	200V - 600V	.2mA - 10A	—	200Ω - 2MΩ	—	—	-20 to 1000	—	✔		✔						5.7 x 3.0 x 1.4	220741	19.95	17.95
2206070	DDM423	DMM	8	2000	1mV	2V - 600V	200V - 600V	200mA - 10A	200mA - 10A	200Ω - 200MΩ	—	—	-20 to 1000	-4 to 1832	✔		✔						5.7 x 3.0 x 1.6	2206070	19.95	17.95
2206061	Dawson DDM640	DMM	8	2000	0.1mV	200mV - 1000V	200mV - 750V	20µA - 10A	20µA - 10A	200Ω - 200MΩ	—	—	—	—	✔	✔	✔	✔					7.7 x 3.7 x 2.2	2206061	34.95	31.95
2206053	Dawson DDM230B	DMM	9	4000	0.1V	0 - 600V	0 - 600V	0 - 10A	0 - 10A	0 - 10MΩ	0 - 100µF	0 - 5M	—	—	✔		✔		✔				5.8 x 3.0 x 1.6	2206053	69.99	63.95
645626	Extech EX330*	DMM	9	4000	100µV	.1mV - 1000V	.1mV - 750V	.1µA - 10A	.1µA - 10A	.1Ω - 40MΩ	.001nF - 200µF	.001 - 10M	-50 to 1000	-58 to 1832	✔		✔		✔				5.7 x 2.9 x 1.6	645626	64.95	59.95
1581177	Extech EX430	DMM	9	4000	100µV	.1mV - 1000V	.1mV - 750V	.1µA - 20A	.1µA - 20A	.1Ω - 40MΩ	.1nF - 100µF	.001 - 10	-20 to 750	-4 to 1382	✔		✔		✔			✔	7.4 x 3.2 x 2.0	1581177	99.95	89.95
2094127	Extech EX505	DMM	9	4000	10µV	0.1mV - 1000V	0.1mV - 1000V	0.1µA - 10A	0.1µA - 10A	0.1 - 40M	0.01nF - 100µF	0.001 - 9.99M	-20 to 750	-4 to 1382	✔		✔		✔			✔	7.2 x 3.2 x 2.2	2094127	119.95	109.95
1537328	Fluke 115†	DMM	9	6000	100µV	600mV - 600V	600mV - 600V	6A - 10A	6A - 10A	600Ω - 40MΩ	1000nF - 9999µF	99.99 - 50k	—	—	✔		✔		✔	✔			6.3 x 3.3 x 1.9	1537328	189.95	179.95
1537336	Fluke 117*†	DMM	9	6000	100µV	600mV - 600V	600mV - 600V	6A - 10A	6A - 10A	600Ω - 40MΩ	1000nF - 9999µF	99.99 - 50k	—	—	✔		✔		✔	✔			6.3 x 3.3 x 1.9	1537336	209.95	199.95
692502	Extech DM110	DMM	10	4000	100µV	0 - 500V	0 - 500V	0A - .40	0A - .40A	400Ω - 40MΩ	0 - 200µF	9 - 10M	—	—	✔		✔						4.3 x 2.2 x 0.5	692502	44.95	39.95
220775	Mastech MY64	DMM	11	2000	100µV	200mV - 1000V	200mV - 700V	2mA - 10A	2mA - 10A	200Ω - 200MΩ	2nF - 20µF	2k - 20k	-20 to 1000	—	✔		✔	✔					7.4 x 3.6 x 1.3	220775	39.95	35.95
645571	Velleman DVM890F	DMM	11	2000	100µV	200mV - 1000V	2V - 700V	20mA - 10A	20mA - 10A	200Ω - 200MΩ	2000pF - 20µF	—	—	-58 to 1832	✔		✔	✔					6.7 x 3.5 x 1.5	645571	44.95	39.95
211650	Extech MN26T	DMM	11	4000	100µV	400mV - 600V	400mV - 600V	400µA - 10A	400µA - 10A	400Ω - 40MΩ	4nF - 200µF	10 - 10M	0 to 760	0 to 1400	✔		✔		✔				4.8 x 2.4 x 1.6	211650	49.95	44.95
2173642	Fluke 179/1AC-II KIT#	DMM	11	6000	0.1mV	0.1mV - 1000V	0.1mV - 1000V	0.01mA - 10A	0.01mA - 10A	0.1Ω - 50MΩ	1nF - 9999µF	2 - 100k	-40 to 400	-40 to 752	✔		✔		✔	✔	✔	✔	7.7 x 3.6 x 1.6	2173642	374.95	359.95
2173634	Fluke 87-5/E2 KIT#	DMM	11	19,999	600mV	600mV - 1000V	600mV - 1000V	600µA - 10A	600µA - 10A	600Ω - 50MΩ	10nF - 9999µF	199.99 - 199.99k	-200 to 1090	-328 to 1994	✔		✔		✔	✔	✔	✔	7.7 x 3.6 x 1.6	2173634	499.95	474.95
220767	Mastech MY68	DMM	12	3260	326mV - 1000V		3.26V- 700V	326µA - 10A	326µA - 10A	326Ω - 32.6MΩ	326nF - 32.6µF	32.6k - 150k	—	—	✔		✔	✔					7.4 x 3.6 x 1.3	220767	44.95	39.95
192655	Fluke 175	DMM	12	6000	100µV	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999µF	99.99 - 99.99k	—	—	✔		✔		✔	✔		✔	7.3 x 3.5 x 1.7	192655	269.95	249.95
2208462	Dawson DDM645	DMM	—	20,000	0.1V	200mV - 1000V	2V - 750V	2mA - 10A	2mA - 10A	200Ω - 200MΩ	20nF - 200µF	—	—	—	✔		✔	✔					2.2 x 3.7 x 7.7	2208462	59.95	53.95
2112532	Extech EX570	DMM	12	40,000	0.1V	0.1mV - 1000V	0.1mV - 1000V	.1µA-10A	.1µA-10A	0.01 - 40M	.001nF - 10,000µF	.0001Hz - 40MHz	-45 to 750	-50 to 1382	✔		✔					✔	7.3 x 3.3 x 2.3	2112532	239.95	219.95
185535	Fluke 179†	DMM	13	6000	100µV	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999µF	99.99 - 99.99k	-40 to 400	-40 to 752	✔		✔		✔	✔		✔	7.3 x 3.5 x 1.7	185535	319.95	304.95
374070	Extech MA220	Clamp	10	4000	100µV	400mV - 600V	400mV - 600V	40A - 400A	40A - 400A	400Ω - 40MΩ	40nF - 100mF	5 - 150k	-50 to 1000	-58 to 1830	✔		✔		✔				7.9 x 2.0 x 1.4	374070	109.99	99.95
1585881	Extech EX830§	Clamp	11	4000	100µV	0.1mV - 600V	0.1mV - 600V	100mA - 1000A	100mA - 1000A	.01Ω - 40MΩ	0.001nF - 40000µF	0.001 - 4k	-50 to 270	-58 to 518	✔		✔					✔	8.5 x 4.3 x 2.0	1585881	209.95	189.95

*With non-contact voltage detector (100-600VAC range)   # Kit with accessories included   † With backlight   § Soft case included

FLUKE 117
P/N 1537336
$209.95

EXTECH DM110 Pocket Sized
P/N 692502
$44.95

MASTECH MY64
P/N 220775
$39.95

velleman DVM890F
P/N 645571
$44.95

EXTECH MN26T Pocket Sized
P/N 211650
$49.95

FLUKE 179
P/N 2173642
$374.95

FLUKE 87-5
P/N 2173634
$499.95

MASTECH MY68
P/N 220767
$44.95

FLUKE 175
P/N 192655
$269.95

DDM645
P/N 2208462
$59.95

EXTECH EX570
P/N 2112532
$239.95

FLUKE 179
P/N 185535
$319.95

EXTECH MA220
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EXTECH EX830
P/N 1585881
$209.95

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FLUKE **Meters & Testers** **EXTECH** INSTRUMENTS | **JAMECO BenchPro** | NEW MARKED IN PINK | ★ Web Code: EMT

| 219361 | 2112541 | 2173651 | 214480 | 218085 | 131764 | 1939642 | 645642 | 198002 | 2130749 | 2206045 | 14285 | 2175445 | 2206037 | 2075946 |

Part No.	Manufacturer	Mfr. Part No.	Description	1	5
2210571	Fluke	FLK-V3000 FC	Wireless AC Voltage Module, saves 65,000 readings, 2.4GHz RF Communications	$169.95	—
219361	Extech	IR-201	Thermometer, Pocket IR with Laser Pointer, measures temp. (-58°F to 518°F) F of V 6:1	59.99	54.95
2112541	Extech	42510A	Thermometer, wide range mini IR, 12:1 compact thermometer w/ laser pointer (-58°F to -1200°F/-50°C to -650°C) 12:1 Compact IR	99.99	94.95
2173651	Fluke	FLUKE-62 MAX	Thermometer, infrared handheld, measures temp. (-22°F to +932°F), IP54 rated, laser pointer, distance to spot size ratio 10:1	99.95	—
214480	Fluke	FLUKE-52-2	Thermometer, measures temp. large backlit dual display, dust splash resistant (-328°F to 2501°F)	319.95	—
218085	Extech	45118	Thermo-Anemometer, mini, measures temp. (0°F to 122°F) & air velocity (1.1mph to 62.5mph)	114.99	109.95
131764	BenchPro	LX-102	Light Meter, digital, ranges: LUX 0 to 50,000, footcandle 0 to 5,000	109.95	89.95
1939642	Extech	480836	RF EMF Strength Meter, measures frequency (50MHz to 3.5GHz)	259.99	244.95
645642	Extech	407730	Sound Level Meter, digital, decibel range (40dB to 130dB)	89.99	85.95
198002	Extech	40180	Tone Generator & Amplifier Probe, tests: wire trace, continuity, clear/busy/ringing line, and tip/ring ID	94.99	—
2130749	Velleman	VTLAN4	LAN tester, tests RJ-45, 10 Base-T, Token Ring, RJ11/12 cables, network, telephone and most types of computer cables	14.95	13.49
14285	BenchPro	RS232	RS232 Line Tester, identifies simple interface problems on lines 2-6, 8, 11, 19, 20	9.95	8.95
2210554	Fluke	FLK-PC3000 FC	Wireless PC Adapter, collects 65000 sets of time stamped readings from FC remote modules	54.95	—
2175445	Velleman	DVM6013	3½-digit Capacitance Meter	69.95	66.49
2206045	Dawson	DET300	Outlet Socket Tester 3 Wire GFCI	9.95	8.95
2206037	Dawson	DDM30	Smart SMD Tweezer Tester	44.95	39.95
198678	Extech	LCR Meter	Passive Component LCR Meter	209.99	199.95
2075946	P3	P4400	Kill A Watt® Energy Consumption Meter	29.95	26.95
2193432	P3	P4482	Kill A Watt® Control - Power Monitor and Automatic Timer	39.95	35.95
2208163	Dawson	DET161	AC Voltage Detector 100-240VAC, 50-60Hz	7.95	7.49
2210589	Fluke	FLK-V3001 FC	Wireless DC Voltage Module, measure up to 1000VDC, stand-alone meter	169.95	—
2210562	Fluke	FLK-T3000 FC	Wireless Temperature Module, K-Type range (-200°C to +1372°C), Resolution: 0.1°C	169.95	—
2210538	Fluke	FLK-3000 FC GM	General maintainance system, works on electrical panels, faster, safer, easier	849.95	—
2210546	Fluke	FLK-3000 FC IND	Industrial system, works on electrical panels faster, safer, easier	999.95	—

★ Digital Panel Meters — Enter Web Code WBU

velleman ## Analog Panel Meters

• Includes mounting hardware   • **316507:** Includes current shunt

★ Web Code: YBQ

Part No.	Mfr. P/N	Range	Size (W" x H" x D")	1	10
316603	AVM6015	0 – 15VDC	2.4 x 1.8 x 1.3	$9.95	$8.95
316671	AVM7015	0 – 15VDC	2.8 x 2.4 x 1.4	9.95	8.95
316638	AVM6030	0 – 30VDC	2.4 x 1.8 x 1.3	9.95	8.95
316654	AVM7030	0 – 30VDC	2.8 x 2.4 x 1.4	9.95	8.95
315301	AIM60005	0 – 50μA	2.4 x 1.8 x 1.3	9.95	8.95
316523	AIM6050	0 – 50mA	2.4 x 1.8 x 1.3	8.95	7.95
316486	AIM60100	0 – 100mA	2.4 x 1.8 x 1.3	9.95	8.95
316558	AIM60500	0 – 500mA	2.4 x 1.8 x 1.3	9.95	8.95
316566	AIM60500	0 – 5A	2.4 x 1.8 x 1.3	9.95	8.95
316582	AIM705000	0 – 5A	2.8 x 2.4 x 1.4	9.95	8.95
316494	AIM6010A	0 – 10A	2.4 x 1.8 x 1.3	9.95	8.95
316507	AIM6030A	0 – 30A	2.4 x 1.8 x 1.3	12.95	11.65

316603

316523

★ 7, 14 & 16-Segment Displays — Enter Web Code PBW

★ Meters and Testers — Enter Web Code EMT

2113201 | **2095040**

2095074 | **2116584**

JAMECO ValuePro ## LCD Digital Panel Meters

• Input ranges: 200mV, 20V, 200V, 500V
• Input impedance: >100MΩ
• Accuracy: ±0.5%
• Automatic polarity indication
• Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, pg 115)
• Size: 2.7"W x 1.7"H (Velleman & ValuePro meters)
   Size: 1.8"W x 1.0"H (DFRobot meters)

DFROBOT **velleman** **2131135**

NEW MARKED IN PINK | ★ Web Code: WBU

Part No.	*Mfr.	Mfr. Part No.	Description	1	10	25
2131135	VEL	PMLCDL	3½-digit	$7.95	$7.49	$6.95
2076113	VEL	PMLED/5	3½-digit 5VDC	19.95	17.95	16.95
2190750	DFR	DFR0130-R	3-digit red LED (4.5V-30V)	10.95	9.95	8.95
2152323	DFR	DFR0130-B	3-digit LED (4.5V-30V w/ 1% accuracy)	10.95	9.95	8.95
2190768	DFR	DFR0244-B	LED current meter (blue)	10.49	9.49	8.49
2190776	DFR	DFR0245-R	LED current meter (red)	10.95	9.95	8.95
108388	JVP	PM-428†	3½-digit (no bezel, snap mount)	9.95	8.95	7.95
2144606	JVP	CX102B	3½-digit red (4.75VDC-5.25VDC)	11.95	10.95	9.95
175951	JVP	PM-128†	3½-digit (bezel, screw mount)	12.95	11.65	10.49
146835	JVP	PM-188BL†	3½-digit (with backlight display)	14.95	13.45	11.95
2076121	VEL	PM/RES	Resistor set for Velleman meters	1.95	1.75	1.49

Cannot use in common ground app.   † Only the PM ports
*Mfr.: VEL = Velleman;   DFR = DFRobot;   JVP = Jameco ValuePro

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LASCAR electronics ## Drill Mountable Panel Meters

★ Web Code: WBU

• Mount by simply drilling a single hole (7/32") and insert the threaded section of the panel meter
• Module size: 1.71"L x 0.84"W

Part No.	Mfr. Part No.	Description	Digit Ht.	Supply Volt.	Measurement Range	1	5	25
2113201	EMV-1125	3½-digit, LCD volt/current meter	.50"	7.5-15VDC	200mV-20V/200μA-200mA	$39.95	$34.95	$31.95
2095040	EMV 1200	3-digit, signal pwrd, LCD voltmeter	.50"	3-50VDC	4-25VDC	29.95	28.49	26.95
2095074	EMC 1500	5-digit, LCD hour meter	.35"	5-27VDC	99999 hours	29.95	28.49	26.95
2116584	V1	3½-digit, LCD voltmeter	.25"	7-12VDC	200mV-20V	16.95	15.95	14.95

Test/Tools

JAMECO.COM

Function Generators

SKMI · Link Instruments · GW INSTEK · BK PRECISION

Web Code: DEJ

229251 · **685329** · **2112831** · **160469** · **2207259**

Part No.	Manufacturer	Mfr. Part No.	Features	Bandwidth	# of Waveform Types	Size (in.)	Wt. (lbs.)	Includes*	Price
229251	Instek	GFG-8020H	Built-in 4-digit counter with CMOS output	2MHz	5	9.1 x 3.7 x 11.0	4.6	1, 2, 3	$214.95
2160411	Instek	SFG-1003	DDS with FPGA design and 6-digit LED display	3MHz	4	9.9 x 3.6 x 11.5	4.6	1, 2, 3	174.95
685329	SKMI	SK-3000	Rotary switch w/ positive/negative pulses	3MHz	6	10.5 x 3.9 x 11.2	6.6	1, 3	209.95
229260	Instek	GFG-8216A	Built-in 6-digit counter with INT/EXT function	3MHz	6	9.9 x 3.6 x 11.5	4.6	1, 2, 3	244.95
2112831	SKMI	SK5200	Rotary switch control w/ built-in 60MHz counter	5MHz	6	11.8 x 3.5 x 10.8	5.5	1, 3	279.95
160469	B&K Precision	BK/4011A	4-digit digital LED display, coarse/fine tuning, variable duty cycle	5MHz	4	10.4 x 11.7 x 3.4	7.8	1, 2, 3	354.95
2207259	Link Instruments	MSO-28	10-channel PC based osciioscope and logic analyzer	60MHz	—	4.0 x 2.4 x 0.8	0.88	1, 2, 3	324.95

*1. Power cord   2. BNC cable   3. User's manual

Oscilloscopes

PARALLAX · OSCIUM · velleman · RT · gabotronics · FLUKE · Um · SKMI

Web Code: RCG

2205907 · **2205931** · **2136518** · **2160534** · **2127339** · **2137422** · **2128294** · **1536886** · **695017** · **2143401**
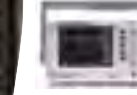
Part No.	Manufacturer	Mfr. Part No.	Bandwidth	Features	Size (in.)	Wt. (lbs.)	Includes	Price
2205940	Gabotronics	GT-0007	200kHz	Mixed signal, 2MSa/s, PDI interface, board and headers	1.98 x 1.01	0.017	Two 10-pin headers	$22.95
2205907	Gabotronics	GT-0010	200kHz	Mixed signal plug-in DIP package, 2MSa/s, 0.96" OLED	1.615 x 1.01	0.024	Two 10-pin headers	54.95
2205915	Gabotronics	GT-0005	200kHz	Mixed signal plug-in DIP package, 2MSa/s, 2.42" OLED	3.3 x 1.75	0.065	Two 10-pin headers	74.95
2205923	Gabotronics	GT-0012	200kHz	Mixed signal handheld, 2MSa/s, 1.3" OLED, 600mAh Li-Ion	3.13 x 1.83 x 0.7	0.37	Header, USB cable, 2 test clip leads	104.95
2205931	Gabotronics	GT-0015	200kHz	Mixed signal handheld, 2MSa/s, 2.42" OLED, 750mAh Li-Ion	3.17 x 2.22 x 0.7	0.40	Header, USB cable, 2 test clip leads	129.95
2136518	Parallax	32220	—	Propscope, 2-channels, 25MSa/s, built-in expansion port, software for multiple test equipment	4.7 x 2.7 x 1.1	1.0	2 probes (x1/x10), USB cable, DAC expansion card	199.95
2160534	Oscium	IMSO-104	5MHz	Mixed signal scope for iPad, iPhone and iTouch; 12MSa/s, 1 analog channel, 4 digital channels	1.6 x 2.2 x 0.4	0.39	Test probe (x1/x10), harness (4 digital +1 ground), SMD grabbers	279.95
2196051	Oscium	IMSO-204	5MHz	Mixed signal scope for iPad, iPhone; 50MSa/s, 2 analog/4 digitals channels	1.6 x 2.2 x 0.4	0.48	2 test probes (1x/10x), harness, SMD grabbers, screwdriver	399.95
2127339	Velleman	HPS140I	10MHz	Handheld pocket size, 40MSa/s, hold/store function, autorange, 6 hours on single charge	2.9 x 4.5 x 1.1	0.91	NiMH rechargeable battery pack, test probe (x10), USB charger	189.95
2187454	Velleman	PCSU200	12MHz	USB PC-Based scope, function generator, transient recorder, bode plotter and spectrum analyzer	3.9 x 3.9 x 1.4	0.54	USB cable, user's manual	149.95
2137422	Velleman	PCSGU250	12MHz	All-in-One PC lab with o-scope, spectrum analyzer, recorder, function generator, bode plotter	2.2 x 8.2 x 7	2.1	Scope probe, BNC-to-RCA adaptor, USB cable, CD software, manual	249.95
160661	Fluke	FLUKE-123/003	20MHz	Industrial scopemeter, 2-channel, RS-232, saves 10 waveform screens, TrendPlot recorder	4.5 x 9.1 x 2.0	5.5	NiCd battery pack, charger, leads, clips, user's manual	1,499.95
2128294	Velleman	HPS50	40MHz	Handheld, 40MSa/s, adjustable trigger, USB output, auto setup, high resolution: 192x112	4.3 x 6.9 x 1.6	2.8	Li-Ion battery, charger, 1 test probe (x1/x10), USB cable	374.95
1536886	SKMI	SK0404	40MHz	2-Channel scope with built-in 5MHz function generator, 6" CRT display, 20Vp-p output	15.7 x 5.2 x 12.8	23.8	2 test probes (x1/x10), BNC cable, AC cord, spare fuse	549.95
1586200	Arctic	SK0409	40MHz	2-Channel scope with built-in 5MHz function generator and frequency counter	15.7 x 5.2 x 12.8	23.8	2 test probes (x1/x10), BNC cable, AC cord, spare fuse	649.95
695017	Velleman	PCSU1000	50MHz	2-Channel USB PC scope, auto setup, with spectrum analyzer/transient recorder test functions	2.2 x 8.2 x 7	2.9	Two 60MHz scope probes, USB cable, user's manual, CD software	449.95
2171655	Uniteq	DS-1065	60MHz	2-Channel, 500MSa/s, built-in delay sweep function, 320x240 pixel high-resolution 5.7" display, USB storage	11.8 x 5.9 x 5.1	8.0	2 probes, DB9 cable, USB cable, power cord, user's manual, CD software	599.95
2143401	Instek	GDS-1152A-U	150MHz	2-Channel, 1GSa/s, 2Mpoint record length	12.2 x 5.6 x 5.5	7.9	Test probe, AC cord, user's manual	934.95

Oscilloscope Probe Sets

- Input resistance at x10 ratio: 10MΩ
- Accessories may include: tips, ground lead, hooks, protection caps, trimmer screwdriver

JAMECO BenchPro · EZ DIGITAL · velleman · RT gabotronics

Web Code: RAC

2145342 · **22892** · **2189880** · **236777** · **2205982**

Part No.	Manufacturer	Mfr. Part No.	Bandwidth	Attenuation Ratio	Description	Length (ft.)	1	5
2130781	Velleman	PROBE60S	60MHz	1:1 or 10:1	IEC-1010 CAT II, 600V max	4.0	$13.95	$12.49
2145342	EZ Digital	T5060	60MHz	1:1 or 10:1	300VDC max.	4.0	17.95	16.95
22892	BenchPro	LF101E	60MHz	1:1 or 10:1	600VDC max.	5.0	24.95	22.49
2189880	BenchPro	P6100*	100MHz	1:1 or 10:1	600VDC max.	4.0	19.95	17.95
2130618	Velleman	PROBE100	100MHz	1:1 or 10:1	IEC-1010 CAT II, 600V max	4.0	20.95	18.95
2130482	Velleman	PROBE250	250MHz	1:1 or 10:1	IEC-1010 CAT II, 600V max	4.0	34.95	32.95
236777	BenchPro	HP-9250	250MHz	1:1 or 10:1	600VDC max.	5.0	39.95	35.95
2205982	Gabotronics	KSOLS101	—	—	Logic analyzer probe cable kit	1.1	5.95	5.49
2205974	Gabotronics	CAB114C40	—	—	3.5mm plug to BNC female cable	0.46	2.95	2.49
2205958	Gabotronics	GT-0019	—	—	3.5mm plug to hook clips probe	2.0	3.95	3.49

*2 probes included

Test/Tools

80,000-Count Benchtop Digital Multimeter

This benchtop multimeter not only provides voltage and current measurements, but also basic resistance, frequency, continuity and diode test functions.

- Large dual-display LCD with analog bar graph
- 50 measurement functions including capacitance, frequency, temperature
- 18 types of frequency up to 80MHz, with 0.1%-99% duty cycle
- Simultaneous measurement: (AC+DC, AC+Hz, DC+dBm, °C+°F, etc.)
- Auto data update and refresh, auto data hold, auto peak hold • RS-232 interface
- 36-hour dynamic record: MAG, MIN, AVG, MAX-MIN, setting upper & lower limit, timing measurement
- Size: 10.2"W x 8.7"D x 3.2"H

Includes: Test leads, thermocouple and user's manual

Part No.	Mfr. Part No.	Wt. (lbs.)	Price
2145748	DM-1150B	3.1	$349.95

2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range and gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100 msec. to 10 sec.
- Channel A: DC coupled – 0.01Hz to 100Hz; AC coupled – 100Hz to 50MHz, sensitivity – 80mVrms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity – 50mVrms, 50Ω impedance
- Size: 10.6"W x 8.5"D x 3.9"H • Weight: 3.5 lbs.

Part No.	Mfr. Part No.	1	5
1955968	DVM13MFC2U	$149.95	$134.95

20MHz & 30MHz 2-Ch Oscilliscopes

- 6" rectangular CRT with internal graticule
- High sensitivity X-Y mode
- Sensitivity: 1mV/div
- Sweep magnification (x10)
- 400V maximum input voltage

NEW MARKED IN PINK

Includes: User's manual, 2 spare fuses, power cord

Part No.	Mfr. Part No.	Bandwidth	Price
2218265	OS-5020A	20MHz	$444.95
2218273	OS-5030A	30MHz	524.95

17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high & low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC

Part No.	Cross Ref. No.	1	5	25
149930	LP3500	$39.95	$35.95	$32.95

4, 8 & 16-Ch Logic Analyzers

- Monitor digitals signals
- Compatible with Windows, Linux, Mac OS
- 4, 8, 16 inputs/channels

Includes: Logic analyzer, flexible test lead set, micro-hook clips, USB cable and custom carrying case

2217140

Part No.	Description	Size (L" x W" x H")	Price
2217140	4-channel	1.66 x 1.66 x 0.39	$99.95
2217131	8-channel	2.1 x 2.1 x 0.46	199.95
2217123	8-channel	3.6 x 3.6 x 0.59	399.95
2217115	16-channel	3.6 x 3.6 x 0.59	499.95

50,000-Count Dual Measurement Multimeter

GWINSTEK

- VFD dual display, 0.02% basic DC voltage accuracy and USB protocol connector
- 11 measurement functions

Includes: User's manual, power cord, test leads, CD software and drivers

NEW MARKED IN PINK

Part No.	Mfr. Part No.	1	5
2192229	GDM-8341	$354.95	$335.95

108W Desktop Power Supply

- Load regulation: ±2% • Line regulation: ±5%
- Input voltage: 88 132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Efficiency (typical): 81%
- Ripple & noise max.: 120mVp-p
- Front panel on/off switch and 3 color LED loading indicator
- Voltage adjustment range: 12-15VDC
- Short-circuit/overload/overvoltage/overtemperature protection
- Back panel 3-prong AC receptacle and banana plugs
- Size: 5.9"W x 5.5"D x 3.3"H • Weight: 3.3 lbs.

Part No.	Mfr. Part No.	1	10
673230	ESP-120-13.5	$39.95	$34.95

PC-Base Oscilloscope, Logic Analyzer and Pattern Generator

- 100MHz spectrum analyzer/FTF
- 200 MSa/s logic analyzer
- 100 Mpt/s pattern generator
- 60MHz bandwidth
- 2 GSa/s oscilliscope
- 8 logic analyzer inputs & 1 pattern generator

Part No.	Mfr. Part No.	1	5
2207241	MSO-19	$249.95	$234.95

★Frequency Counters — Enter Web Code VCG

Multi-Functional Graphics Display with Touch Screen Capabilities – Panel Pilot Series

NEW MARKED IN PINK

★Web Code: PNP

The Panel Pilot Series is a range of color TFT graphics meters that users can program to display a variety of meter styles previously provided by a traditional panel meter. Available in 2.4", 2.8" and 3.5" sizes, the meters are programmable via USB interface with free Windows-based configuration software. Users can select the type of meter style they want and personalize the display by selecting preferences in color, text and voltage input scaling. Once programming is complete, the user can save all selections to the meter and computer, detach the unit and mount in their panel as they would a standard display. The unit is supplied with an ever increasing number of programmable meter styles. A NEMA 6 rated version of the 2.4" display is available for more hostile environments. 4-20mA measurement versions in all sizes also available.

Part No.	Mfr. Part No.	Description	Module Size (inch)	Connection	Supply Voltage	Measurement Range	User Interface	Price
2115354	SGD 24-M	Multi-function 2.4" color TFT display with 3½ digit, bargraph and analog style meter styles choices	3.0 x 1.9 x 0.75	Screw terminal	4-30VDC	0-40VDC	USB	$94.95
2178275	SGD 28-M	Multi-function 2.8" color TFT display with 3½ digit, bargraph and analog style meter styles choices	3.4 x 2.3 x 0.80	Screw terminal	4-30VDC	0-40VDC	USB	109.95
2178267	SGD 35-M	Multi-function 3.5" color TFT display with 3½ digit, bargraph and analog style meter styles choices	3.7 x 3.0 x 0.90	Screw terminal	4-30VDC	0-40VDC	USB	189.95
2125149	SGD 24-M420	Multi-function 2.4" color TFT display with 3½ digit, bargraph and analog style meter styles choices	3.0 x 1.9 x 0.75	Screw terminal	4-30VDC	4-20mA	USB	89.95
2178283	SGD 28-M420	Multi-function 2.8" color TFT display with 3½ digit, bargraph and analog style meter styles choices	3.4 x 2.3 x 0.80	Screw terminal	4-30VDC	4-20mA	USB	129.95
2137924	SGD 35-M420	Multi-function 3.5" color TFT display with 3½ digit, bargraph and analog style meter styles choices	3.7 x 3.0 x 0.90	Screw terminal	4-30VDC	4-20mA	USB	129.95
2178291	SGD 24-M-IP	Multi-function 2.4" color TFT display NEMA 6 rated for hostile environments	3.0 x 1.9 x 0.75	Screw terminal	4-30VDC	0-40VDC	USB	154.95
2219292	SGD ADPT-TC	Thermocouple add-on board for PanelPilot compatible displays, supplied with K-type probe	—	—	—	-200°C–1350°C	—	36.95

Test/Tools

Single Output Benchtop Power Supplies

• Voltage and current adjustable

| | 301920 | 175257 | 645600 | 301971 | 207618 | 301911 | 207706 | 175249 |

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Displays (Digits)	Input Voltage (VAC)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing 1	Pricing 5
301920	BenchPro	HY1503C	15/3	45	2-Analog	115 ±10%	Y	N	3.8 x 6.3 x 9.1	9.0	$99.95	$89.95
2130378	Velleman	PS1503SBU	15/3	45	2-Digital LCD (3.5)	220 @ 50Hz	Y	N	8.4 x 6.0 x 3.8	6.7	99.95	94.95
175265	BenchPro	DPS150A	15/10	150	2-Analog	110 @ 60Hz	Y	Y	6.2 x 4.0 x 5.7	12	109.95	99.95
175257	BenchPro	SPS250A	15/15	225	2-Analog	110/220 @ 47-63Hz	Y	Y	6.2 x 4.0 x 5.6	3.8	149.95	144.95
681221	Extech	382202	18/3	54	2-Digital LCD (4)	120 @ 60 Hz	Y	Y	9.4 x 6.1 x 4.3	6.6	139.99	132.95
645600	Extech	382200	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	Y	Y	9.4 x 6.1 x 4.3	4.4	129.99	122.95
301971	Lascar	PSU130	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	Y	Y	5.5 x 1.6 x 5.2	1.2	89.95	84.95
301866	BenchPro	HY3003D	30/3	90	2-Digital LCD (4)	115 ±10%	Y	N	5.4 x 6.2 x 11.5	10	159.95	144.95
207618	Mastech	HY3005C	30/5	150	2-Analog	115 ±10%	Y	N	5.4 x 6.2 x 11.5	14	159.95	135.95
301911	BenchPro	HY3005D	30/5	150	2-Digital LCD (4)	115/230 ±10% (switchable)	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
207635	Mastech	HY3010	30/10	300	2-Digital LED (4)	115/230 ±10% (switchable)	Y	N	10.4 x 6.5 x 14.4	31	299.95	269.95
207694	BenchPro	HY5002	50/2	100	2-Digital LED (4)	115/230 ±10% (switchable)	Y	N	5.4 x 6.2 x 11.5	13	169.95	149.95
207706	BenchPro	HY5003	50/3	150	2-Digital LED (4)	115 ±10%	Y	N	5.4 x 6.2 x 11.5	13	209.95	189.95
301938	BenchPro	HY3005	30/5	195	2-Digital LED	115/230 ±10%	Y	N	11.5 x 5.25 x 6.25	10	174.95	159.95
207600	Mastech	HY5005	50/5	250	2-Digital LED (4)	115/230 ±10% (switchable)	Y	N	10.4 x 6.5 x 14.4	17	229.95	209.95
175249	BenchPro	DPS5050	50/5	250	2-Analog	110 @ 50-60Hz	Y	Y	7.7 x 6.7 x 4.9	13.8	179.95	159.95

Multiple Output Benchtop Power Supplies

These benchtop power supplies are a must for every laboratory. They sit out of the way of your workspace and stay ready to supply power at all times. Single and multiple outputs are available for your specific laboratory needs. Standard banana input plugs provide easy connections and precision adjustment knobs provide exact power outputs for all your projects. For more information, visit www.Jameco.com.

Perfect for Laboratory Use

• Voltage and current adjustable

| | 211693 | 301962 | 301947 | 197991 | 197982 | 1939618 |

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Input Voltage	Displays (Digits)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing 1	Pricing 5
211722	BenchPro	HY3002-2	0-30/2; 0-30/2	120	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	23	$209.95	$199.95
211705	BenchPro	HY3002D-2	0-30/2; 0-30/2	120	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	23	224.95	199.95
211693	BenchPro	HY3003D-2	0-30/3; 0-30/3	180	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	28	219.95	199.95
301962	Mastech	HY5003-2	0-50/3; 0-50/3	300	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	26	279.95	249.95
301947	Mastech	HY3005D-2	0-30/5; 0-30/5	300	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	26.5	309.95	279.95
211713	Mastech	HY3003-3	0-30/3; 0-30/3; 5/3	195	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	29	209.95	189.95
211684	BenchPro	HY3003D-3	0-30/3; 0-30/3; 5/3	195	115 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
2145828	Unitech	PS-2303	0-30/3; 0-30/3; 5/3	195	110-120 @ 50-60Hz	4-Digital LED (3.5)	Y	Y	9.6 x 5.5 x 13.6	17.6	324.95	299.95
301955	Mastech	HY3005D-3	0-30/5; 0-30/5; 5/3	195	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	29	349.95	314.95
2145801	Uniteq	PS-3303	0-30/3; 0-30/3; 5/3	195	110/220 @ 50/60Hz	4-Digital LED (3)	Y	Y	11.8 x 8.7 x 5.8	11.1	339.95	314.95
197991	Extech	382213	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60Hz	2-Digital LCD (3)	Y	Y	6.0 x 5.6 x 9.5	11	199.99	189.95
197982	Extech	382203	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60Hz	2-Analog	Y	Y	6.0 x 5.6 x 9.5	11	169.99	159.95
1939600	Extech	382260	0-16/5; 0-27/3; 0-36/2.2	80	90--264 @ 47-63Hz	2-Digital LED (4)	Y	N	5.0 x 2.1 x 13	4.96	269.99	254.95
1939618	Extech	382270	0-30/5; 0-30/5; 3-6/3; 8-15/1	334.5	110-127/220-240 ±10% *	4-Digital LED (4)	Y	Y	10.2 x 6.3 x 14.5	26.5	459.99	434.95

* Selectable

13.8VDC Precision Regulated Power Supply

• Heavy duty 5'8" 3-prong power cord   • Illuminated rocker switch   • Short-circuit protected   • Fuse protected
• Output mating terminals: see pg 125 for banana terminal plugs

Part No.	Manufacturer	Mfr. Part No.	Power (W)	Output Volts @ Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	5	25
138676	BenchPro	52-192012	276	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	$109.95	$94.95	$84.95

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Test Leads, Cables, Plugs, Clips & Posts

Test Leads and Cables

Pomona | KEYSTONE | JAMECO BenchPro |

NEW MARKED IN PINK | ★ Web Code: RAC

| 2113877 | 176971 | 2211055 | 11422 | 176954 | 256832 | 2113869 | 2158477 | 212222 |

Part No.	Manufacturer	Product No.	Description	Size (L")	1	10	25
159871	Pomona	2249-C-36	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	36	$16.95	$15.25	$13.75
159880	Pomona	2249-C-60	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	60	19.95	17.95	16.95
2113877	Pomona	3957	BNC male to Multi-Stacking banana plugs (2nd End)	1.55	16.95	14.95	13.95
176971	Pomona	4532-C-36	BNC male to Mini alligator clips w/ strain relief, RG58C/U, 50Ω, 20AWG, blk	36	20.95	18.95	17.95
11464	BenchPro	05-A-078-R	BNC male to Mini-clip test lead, RG174A/U, black	39	4.95	4.49	3.95
11422	BenchPro	05-A-081-R	BNC male to Micro-clip test lead, RG174A/U, black	39	4.95	4.49	3.95
2097150	Pomona	5187-C-36	BNC male to MiniGrabber test leads, RG58C/U 50Ω, 20 AWG, black	36	19.95	18.95	17.95
176954	Pomona	5187-K-36	BNC male to MiniGrabber test leads, RG174/U 50Ω, 26 AWG, black	36	29.95	27.95	24.95
256832	BenchPro	CBB-069	BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red	7	5.95	4.95	4.49
2097555	BenchPro	CBB-070	BNC male to pigtail, 20 AWG, 2 wire, 1 black, 1 red	9	5.95	4.95	4.49
2113869	Pomona	3788	BNC female Minigrabber test clips (2nd end)	2.56	12.95	11.95	10.95
2158477	BenchPro	FC16A	Probes w/ right angle banana, screw on alligator clips, 1 black, 1 red	40	8.95	7.95	6.95
2211055	BenchPro	TP9238	Probes, R/A with screw on alligator clip, 24 AWG, red/black	36	7.95	6.95	6.25
212222	Probe Master	8043S	Softie test probe leads, 10-pc. set, interchangeable tips, 18 AWG, 1 blk, 1 red	48	27.95	25.95	23.95
174625	Probe Master	8150	Micro-tip test probe leads rt. angle (w/10 plunger type tips), 1 blk, 1 red	39	36.95	33.95	31.95
168516	BenchPro	GA-5010	Universal test lead kit w/ 12 interchangeable tips, 1 black, 1 red	36	9.95	8.95	7.95
2113914	Pomona	5953A	Adjustable tip test probe set, tip adjusts up to 3", 1 black, 1 red	48	26.95	24.95	23.95
155951	Pomona	5519A	Banana plug to rt. angle probe, insulated leads, 18 AWG 1 blk, 1 red	48	16.95	14.95	13.95
1814153	Pomona	1166-48-0	Multi-stacking banana plug to alligator clip, black	48	6.95	6.25	5.59
77738	BenchPro	GF19-R	Protected banana style multimeter test leads, 1 black, 1 red	40	5.95	5.49	4.95
77746	BenchPro	FC-15B-R	Standard banana style multimeter test probes, 1 black, 1 red	42	7.95	6.95	6.25
10444	BenchPro	GAL01	Alligator clip test leads, 24 AWG (19/36), 10-pc. assorted colors	21	4.95	4.49	3.95
2210239	ValuePro	GAL1016	Alligator clip test leads, 16 AWG, 2 sets, 5 colors	21	9.95	8.95	7.95
2185483	BenchPro	GAL02	Alligator clip test leads, 24 AWG, 1 black, 1 red	21	1.95	1.75	1.49
2210247	ValuePro	GAL0216	Alligator clip test leads, 16 AWG, 1 set (red/black)	21	5.95	5.39	4.75
159901	Pomona	B-24-02	Stackable banana patch cords, 18 AWG, 1 black, 1 red	24	10.95	9.95	8.95
159919	Pomona	B-36-02	Stackable banana patch cords, 18 AWG, 1 black, 1 red	36	10.95	9.95	8.95
77842	BenchPro	KLN-4-25/H-R	Stackable banana patch cords, 18 AWG, 2 ea. (blk,red,blue,white,yellow)	9.8	26.95	23.95	20.95
1814137	Pomona	1166-12-0	Alligator clip to stackable banana plug, 18 AWG, black	12	5.95	5.39	4.79
1814145	Pomona	1166-12-2	Alligator clip to stackable banana plug, 18 AWG, red	12	5.75	5.25	4.75
1814161	Pomona	1166-48-2	Alligator clip to stackable banana plug, 18 AWG, red	48	7.95	6.95	6.25
107423	BenchPro	GCA340-R	Double banana plug to alligator clip test leads, 1 black, 1 red	36	5.95	4.95	4.49
21857	BenchPro	05-A-082-R	Mini-clip to stackable banana test leads, black	39	4.95	4.49	3.95
21865	BenchPro	05-A-079-R	Mini-clip to stackable banana test leads, red	39	4.95	4.49	3.95
2189601	BenchPro	3782-36-02JVP	Mini-clip to stackable banana test leads, 1 black/ 1 red	39	6.95	6.25	5.59
159899	Pomona	3782-36-02	Mini-clip w/ stackable banana test leads, 20 AWG, 1 black, 1 red	36	13.95	12.95	11.95
135299	BenchPro	SF-207A-R	Mini-clip test leads, 26 AWG, 5 sets (blue, black, yellow, red, green)	14	10.95	9.95	8.95
156495	Pomona	5523-R	MiniGrabber™ test clip patch cord, 20 AWG 10-pc. assorted colors	24	44.95	41.95	39.95
155985	Pomona	2708B	9 slot test lead holder, accepts RG213 & RG214 wire sizes (blue)	11	13.95	12.95	11.95
155977	Pomona	4408	10 slot test lead holder, accepts RG59 & RG108 wire sizes (black)	11	12.95	11.95	10.95
155969	Pomona	1508	14 slot test lead holder, accepts RG58 & RG142 wire sizes (orange)	11	14.95	13.49	11.95

174625	168516
155951	77738
77746	10444
159901	159919
2210239	77842
1814161	107423
2189601	159899
135299	155977

Test Clips, Plugs and Posts

Test Clips, Plugs & Posts continued on next page   ★ Web Code: TLC

| 71240 | 77691 | 1818787 | 2127742 | 2205755 | 1582170 | 2168528 | 2144024 | 125197 |

Part No.	Manufacturer	Product No.	Description	Size (in.)	1	10	100
71240	BenchPro	GIP-003-R	Binding post, screw type, chassis mount 1 black, 1 red	1.0 L x .50 Dia.	$1.95	$1.75	$1.49
77691	BenchPro	GIP-001-R	Binding post, screw type, chassis mount 1 black, 1 red	1.8 L x .50 Dia.	2.49	2.25	1.95
1818779	Pomona	3760-0	Binding post, accepts banana, wire, or spade lug, black	1.78 L x .44 Dia.	4.95	4.49	3.95
1818787	Pomona	3760-5	Binding post, accepts banana, wire, or spade lug, green	1.78 L x .44 Dia.	4.95	4.49	3.95
2127742	Pomona	3760-2	Binding post, accepts banana, wire, or spade lug, red	1.78 L x .44 Dia.	4.95	4.49	3.95
2205755	BenchPro	WTA-60R-4PK	Binding post 4-pack, chassis mount, red/black/green/yellow	1.1 L x .30 Dia.	3.95	3.59	3.29
2215443	Pomona	5935-0	Banana jack chassis mount, .079 solder tab black	.680 L x .260 Dia.	1.49	1.39	1.29
1582188	Keystone	6092	Banana jack, chassis mount, 0.182" solder tab, black	.937 L x .433 Dia.	1.95	1.75	1.49
1582170	Keystone	6091	Banana jack, chassis mount, 0.182" solder tab, red	.937 L x .433 Dia.	1.95	1.75	1.49
2168528	BenchPro	0584-BLK	Banana jack, chassis mount, solder tab, tin-plated, black	0.91 L x .43 Dia.	$1.49	$1.25	$1.09

| 72195 | 137526 |
| 159863 | 159927 |

Test/Tools

Test Clips, Plugs and Posts (Continued)

NEW MARKED IN PINK

More images on previous page

★ *Web Code: TLC*

Part No.	Manufacturer	Product No.	Description	Size (in.)	1	10	100
2168536	BenchPro	0584-RED	Banana jack, chassis mount, solder tab, tin-plated, red	0.91 L x .43 Dia.	$1.49	$1.25	$1.09
125197	BenchPro	GBRR2-R	Screw mount double binding/banana post, black/red	1.6 L x 1.4 W	3.95	3.49	2.95
2144024	Pomona	6883	Dual binding posts with base	1.9 L x 0.17 Dia.	2.95	2.75	2.49
72195	BenchPro	GBP205-R	Set screw banana plug, 1 black, 1 red	1.6 L x .40 Dia.	1.95	1.75	1.49
137526	BenchPro	HP-2234P-R	Set screw banana plug, 1 black, 1 red	2.3 L x .30 Dia.	3.95	3.59	3.29
159855	Pomona	1325-02	Solderless stackable banana plug w/ set screw, 1 black, 1 red	1.55 L x .17 Dia.	3.95	3.59	3.29
159863	Pomona	1825-02	Solderless stackable banana plug w/ safety collar, 1 black, 1 red	4.59 L x .39 Dia.	3.95	3.59	3.29
125210	BenchPro	GBRR4-BLK-R	Solderless stackable double banana plug, w/ wire guide, black	1.59 L x 1.20 W	1.95	1.75	1.49
159927	Pomona	MDP-02	Solderless stackable dbl banana plug, w/ wire guide, red (set of 2)	1.55 L x 1.18 W	6.95	6.25	5.59
11440	BenchPro	03-701A-R	BNC female to standard double banana plug, black	2.03 L x 1.7 W	4.95	4.49	3.95
125225	BenchPro	GB2BR2	BNC male to standard double banana plug, black	2.21 L x 1.8 W	6.95	5.95	5.39
125233	BenchPro	GB1BN2	BNC female to double binding/banana posts, black	2.14 L x 1.8 W	6.95	5.95	5.39
99355	BenchPro	GB2BN2	BNC male to double binding/banana posts, black	2.35 L x 1.7 W	6.95	5.95	5.39
153163	BenchPro	SF-207-BL-R	Micro test clip, 1 blue	1.7 L	.79	.75	.69
2197783	BenchPro	XM-BLK	Micro test clip, 1 black	1.5 L	.79	.75	.65
114810	BenchPro	G2P004-R	Micro test clip, 1 red, 1 black	1.7 L	1.75	1.49	1.25
114818	BenchPro	G2P002-R	Mini test clip, 1 black, 1 red	3.5 L	2.49	2.25	1.95
2197791	BenchPro	201W36BLK	Mini grabber test clip to banana plug, 3' black	2.18 L / 1.45 L	2.95	2.59	2.29
248921	BenchPro	SF101CP-R	Mini alligator clip, solder/crimp (set of 2)	1.2 L x .30 W	.49	.45	.39
248939	BenchPro	SF-103CP-R	Mini alligator clip, solder/crimp (set of 2)	1.6 L x 0.3 Dia.	.59	.55	.45
256525	BenchPro	SF105B-R	Alligator clip, barrel/screw, 2" (set of 2)	2.0 L x .20 Dia.	.59	.55	.45
70991	BenchPro	GIP006-R	Insulated alligator clips, 1 black, 1 red	2.3 L x .50 W	.59	.55	.45
2215654	BenchPro	SLV-1.2-R	Red insulator sleeve for P/N 248921 (set of 2)	1.3 L x .30 Dia.	.35	.29	.25
2215662	BenchPro	SLV-1.2-BK	Black insulator sleeve for P/N 248921 (set of 2)	1.3 L x .30 Dia.	.35	.29	.25
248962	BenchPro	SF-103SV-BK	Black insulator sleeve for PNs 248939 & 256525 (set of 2)	2.1 L x .20 Dia.	.39	.29	.25
248972	BenchPro	SF103SV-RD-R	Red insulator sleeve for PNs 248939 & 256525 (set of 2)	2.1 L x .20 Dia.	.39	.29	.25
1581986	Keystone	5001	PCB mini test point, looped, black, 0.100ID eyelet	.30L x .09 Dia.	.29	.25	.19
2168430	Grip-On	37128	28-pc. electrical clip kit, alligatr clips and charging clips	—	6.95	6.25	5.59

11440

125233

99355

2197783

114810/114818

2197791

248939

256525

70991

248962

248972

1581986

JAMECO BenchPro
Test Lead Starter Kit

This kit includes our top selling test leads at a reduced price.

★ *Web Code: TLC*

Includes one of each:
- BNC female-to-pigtail cable (P/N 256832)
- BNC male-to-pigtail cable (P/N 2097555)
- BNC male-to-alligator clip (P/N NM)
- BNC male-to-mini clip (P/N 11464)
- BNC female-to-micro clip (P/N 11422)
- Mini clip to stackable banana test leads (P/N 21857)
- Double banana plug to alligator clip test leads (P/N 107423) • Protected probes (P/N 21865)
- Protected multimeter test leads
- Standard banana-style multimeter test leads (P/Ns 77738/77746) • Anti-static wrist strap (P/N 34552)

Part No.	Description	1	5
2113236	Test lead starter kit	$39.95	$36.95

JAMECO BenchPro
26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter • Compact carrying case
- T-10, T-15, and T-20 Torx bits • Driver handle
- 3" extension bar for 1/4" drive • Tweezers
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.

Part No.	Description	1	5	25
170069	26-pc. SAE tool set ..	$14.95	$13.49	$11.95

JAMECO BenchPro
40-Piece Electronic Tech Tool Kit

- Kit includes:
  – Wire cutters/ stripper
  – Adapter bit for sockets
  – Pocket clip screwdriver
  – 10-pc screwdriver set
  – T10-T25 reversible   – Torx screwdriver bits
  – Potentiometer alignment tools
  – 3/16"-1/2" S.A.E. nut driver sockets
  – 6mm-12mm metric nut driver sockets
  – Slotted and Phillips screwdriver bits
  – Extra long 3-claw parts holder
  – IC inserter with pin straightener   – IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H   • Weight: 1.7 lbs.

Part No.	Description	1	5	25
119183	40-piece tool kit	$24.95	$22.49	$19.95

JAMECO BenchPro
51-Piece Tech Tool Kit

- Kit includes:
  – Storage box
  – 4 pliers
  – Tweezers
  – Scissors
  – 7-piece hex key set
  – PVC insulated tape
  – 10-piece screwdriver set
  – Utility knife (3 blades)
  – 2 Needle files   – Multimeter
  – 3-piece soldering aid kit   – Brush
  – Desoldering pump   – Wrench
  – 6-piece electronic screwdriver set   – Solder core
  – Soldering iron with stand and sponge
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H   • Weight: 12.2 lbs.

Part No.	Description	1	5
26681	51-piece tool kit	$119.95	$109.95

Pro'sKit
65-Piece Master Electronics Tool Kit

Simply every tool needed for field repair or installation, all in a handsome lockable case with room for spare parts or special equipment.

- Kit includes:
  – 7 pliers   – Storage box
  – Wrench   – 3-piece soldering aid kit
  – Soldering iron with stand and sponge
  – 10-piece screwdriver set   – Brush
  – Crimping tool   – Oil can   – Desolder wick
  – 6-piece screwdriver set   – Desolder pump
  – Testing screwdriver   – 5-piece file set
  – IC extractor   – Flashlight   – Alignment tool
  – 6-piece wrench set   – 7-piece hex set
  – 3-prong holder   – Hammer   – Tweezers
  – Measuring tape   – Heat sink   – Scissors
  – Solder core   – PVC insulated tape
  – Utility knife (3 blades)   – Part tube
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H   • Weight: 16.9 lbs.

Part No.	Description	1	5
218245	65-piece tool kit	$179.95	$169.95

★ *Tool Kits — Enter Web Code CAA*

JAMECO BenchPro
Aluminum Tool Case

Made of lightweight aluminum, this tool case is designed to take rough field use.

- Size: 19.0"L x 14.0"W x 6.0"H

Includes: Tool pallet, egg carton foam lid and 2.5" thick pre-cut foam bottom

Part No.	Description	1	5
261877	Tool/equipment case	$49.95	$44.95

Test/Tools

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

100-Piece Professional Electronics Tool Kit

JAMECO BenchPro

- Kit includes:
  - Soldering iron
  - 12 screwdrivers
  - 7-piece hex key set
  - Extractor
  - 4 Pliers
  - Adjustable wrench
  - Crimper/Stripper
  - 6-piece screwdriver set
  - 3-piece soldering aid kit
  - Flashlight
  - Desoldering pump
  - Multimeter
  - Tweezers
  - 5-piece file set
  - 10-piece wrench set
  - Voltage tester
  - 2 bottles cleaning liquid
  - Blade cutters
  - Cordless screwdriver kit (bits included)
  - Vise
  - Brush
  - Soldering stand
  - Solder pen
  - Cutters
  - Storage box
  - Tape
  - Wrist strap
  - Vacuum cleaner
  - Scissors
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 20 lbs.

Part No.	Description	1	5
242851	100-piece tool kit	$149.95	$134.95

12-Piece Fiber Optic Tool Kit

ProsKit

- Kit includes:
  - SC polishing disk
  - ST polishing disk
  - Fiber optic crimping tool
  - Side cutter 125mm
  - Fiber optical tools
  - Carbide fiber scribe
  - Foam swabs cleaning kit
  - Carrying zipper bag
  - Utility component storage box
  - Fiber optic 100x-200x viewing scope kit
  - Universal syringe 2.5mL
  - Fiber optic kevlar cutter
  - Size: 11.0"L x 7.8"W x 2.8"D

Part No.	Description	Weight	Price
2193491	Fiber optic tool kit	3.5 lbs.	$169.95

116-Piece Tech Service Tool Kit

ProsKit

- Kit includes:
  - Storage box
  - 8 pliers
  - Tweezers
  - Spring hook
  - 3-piece soldering aid kit
  - Desoldering pump
  - 3-piece alignment tool set
  - Diagonal cutter
  - Soldering iron
  - Forceps
  - 9-piece screwdriver set
  - Wire stripper
  - 5-piece file set
  - Flashlight
  - 3-prong holder
  - PVC insulated tape
  - Heat sink
  - Measuring tape
  - Drill
  - Desoldering wick
  - Brush
  - Crimping tool
  - Extractor
  - 7-piece hex key set
  - Hammer
  - Solder core
  - Wrist strap
  - Inspection Mirror
  - 6-piece electronic screwdriver set
  - 40-piece socket & screwdriver set
  - 10-piece electronic wrench set
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024	116-piece tool kit	$295.95	$269.95

95-Piece Pro-Tech Tool Kit

JAMECO BenchPro

- Kit includes:
  - Navy blue storage box
  - 7-piece hex key set
  - 5-piece needle file set
  - 10-piece wrench set
  - 8 different pliers
  - 6-piece precision screwdriver set
  - 29-pc. socket wrench set
  - Wire stripper/crimper
  - Cushion grip screwdrivers
  - Hammer
  - Inspecting mirror
  - Tape measure
  - Digital multimeter
  - Lead-free solder core
  - Desolder pump
  - 6" chrome-plated wrench
  - Stainless steel tweezer
  - Plastic fliptop box
  - 30W soldering iron
  - Cleaning brushes
  - Aluminum flashlight
  - Mini drill with drill bits
  - Mini hobby vise
  - Elastic wrist strap
  - IC extractor
  - Electrical tape
- Size: 18.4"L x 13.4"W x 6.4"H

Part No.	Description	Weight	Price
2153756	95-piece tool kit	20.6 lbs.	$174.95

119-Piece Chrome Vanadium Tool Kit

JAMECO BenchPro

- Kit Includes:
  - 13-piece combination wrench set
  - 52-piece socket tool set
  - 2 adjustable wrenchs 6" and 8"
  - 7-piece nut screwdriver set
  - 8-piece (SAE), 8-piece (Metric) hex-key set
  - 5-piece torx screwdriver set
  - 8-piece screwdriver set
  - 1 water pump plier
  - 2 lock grip pliers 5" and 7"
  - 1 combination leveler
  - 6-pliers
  - 1 wire stripper
  - 6" tape measure
  - 2 pliers off set
  - 1 claw hammer
- Sockets and wrenches are chrome vanadium plated
- High resistant aluminum case
- Size: 19.3"L x 14.6"W x 6.5"D • Weight: 31.2 lbs.

Part No.	Description	Price
2129941	119-piece tool kit	$149.95

Variable High-Speed Drill Rotary Tool Kit

JAMECO BenchPro

- Speed: 6000~32000rpm
- Motor power: 130W
- Collet capacity: 3.2mm
- 28 pcs. sanding/grinding bit set
- Case included, 2.2 lbs. • Variable speed selector

Part No.	Description	1	5
2118977	Variable rotary tool kit	$29.95	$26.95

Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum 0.375" hole required • Size: 7.8"L
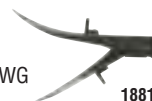
18810

Part No.	Mfr. Part No.	Description	1	10
18810	HT204	Nibbling tool	$7.95	$6.95
29331	HT204B	Replacement bit	3.95	3.59

★ Tool Kits — Enter Web Code CAA

16-Piece Repair Tool Kit for Apple Products

ProsKit

Specially made for Apple product repairs.

In Use

- High-quality steel screwdriver bits
- Levers and pry paddles for scratch-free opening
- Miniature suction cup for touch screens
- Also works on cell phones and small electronic devices

Part No.	Mfr. Part No.	1	5
2196887	SD-9314	$14.95	$13.49

Automatic Center-Punch Tool

JAMECO BenchPro

- Adjustable • Alloy steel point
- Precision instrument
- Knurled steel body • Size: 5.0"L x 0.5"Dia.

Part No.	Description	1	5
160282	Center punch tool	$7.95	$6.95

5-Piece Needle File Set

JAMECO BenchPro

- Round, square, tri-square, half-round, flat
- Made of heavy duty hardened steel
- Color: black with red handle • Each 7" long

Part No.	Description	1	5	25
2157589	5-piece file set	$4.95	$4.49	$3.95

Pocket Screwdriver

JAMECO BenchPro

Phillips & Flat head   ★ Web Code: CAQ

- Pen clip for pocket storage

Part No.	Description	1	10	100
127271	6"L pocket screwdriver	$1.95	$1.59	$1.39

Pocket Deburring Tool

JAMECO BenchPro

- Easily smooth out sharp-edged holes
- Swivel movement
- Pocket clip • Size: 5.5"L

Part No.	Description	1	5	25
2157597	Pocket deburring tool	$5.95	$5.49	$4.95

Precision Cutting Knife

JAMECO BenchPro

- Ultra sharp cutting blades
- Precise blade with protective cover

Part No.	Length	1	5	25
2157571	6.0"L	$3.59	$3.25	$2.95

Deluxe Precision Knife Set

JAMECO BenchPro

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

Includes: 13 types of blades

Part No.	Description	1	10	100
72768	13 blade knife set	$8.95	$7.95	$6.95

Test/Tools

Xcelite | JAMECO BenchPro | Wire Cutters/Strippers/Crimpers | EXIMCORP | Pro'sKit | ★ Web Code: GBU

| 179902 | 2123320 | 35482 | 146712 | 2188060 | 2112292 | 159185 | 114535 | 78992 | 215889 | 159274 |

| 2112284 | 99443 | 159291 | 2196879 | 161200/161218 | 175098 | 18797 | 2153078 | 2192376 | 159312 | 174676 |

Part No.	Manufacturer	Mfr. P/N	Description	Cut	Strip	Crimp	Size (L" x W")	1	5
179902	BenchPro	GPL-171	4" leaf spring cutters w/ flush side cutting, forged steel, cushion grip	✔			4.0 x 2.6	$3.95	$3.59
34622	Eximcorp	ES2494	4.5" spring loaded diagonal flush cutters, heat treated forged steel, insulated handle	✔			4.5 x 2.6	3.95	3.49
2123320	BenchPro	GPL-101	4.5" spring return cutters w/ flush side cutting, carbon steel, vinyl grip	✔			4.5 x 2.6	4.95	4.49
35482	BenchPro	AX103	4.3" Diagonal wire cutters, rubber handles, 0.5" cutting blade, 45° angle	✔			4.3 x 2.1	6.95	5.95
146712	Xcelite	170M	5" general purpose shearcutters, flush cutting, red cushioned grips	✔			5.0 x 2.5	8.95	7.95
2188051	Xcelite	170D	5" general purpose shearcutter with static-dissipative black grips, up to 20AWG	✔			5.6 x 2.7	9.95	8.95
2188060	Xcelite	1178M	5.6" heavy-duty shearcutters, for IC pins, cables and harnesses, up to 14AWG, red grips	✔			5.6 x 2.7	13.95	12.95
161411	Pro's Kit	1PK-717	5" Diagonal wire cutters, insulated handles, cuts 0.08mm fine wire	✔			5.0 x 1.8	8.95	7.95
146739	Xcelite	MS54V	4" semi-flush oval head cutters, diagonal cut, green cushioned grips	✔			4.2 x 1.8	19.95	17.95
217921	Xcelite	MS54J	4" oval head-flush diagonal cutters, flush cut, green cushioned grips	✔			4.3 x 1.8	19.95	17.95
1536974	Xcelite	S475NJS	5" tapered head diagonal cutters, flush cut, green cushioned grips	✔			5.0 x 2.5	19.95	17.95
217904	Xcelite	MS549JV	4" tapered head diagonal cutters, flush cut, green cushioned grips	✔			4.2 x 1.8	19.95	17.95
217867	Xcelite	MS545JV	4" slim line tapered head cutters, diagonal flush cut, green cushioned grips	✔			4.2 x 1.9	19.95	17.95
2112292	BenchPro	TTK-061	UTP/STP wire stripper, 3-24 AWG, shilded/unshielded/twisted pair cable		✔		3.5 x 1.3	1.95	1.49
159185	Hanlong	HT-332D	2-blade rotary coax cable strippers, 4 settings for cable sizes 4-12mm		✔		3.9 x 0.7	12.95	11.95
114535	Hanlong	HT-336G	Ratcheted BNC crimper, for RG58,RG59,RG62,RG174, and fiber optic			✔	8.5 x 2.5	22.95	20.95
78992	Hanlong	HT-108	5" cutter/strippers, 10-30 AWG, spring return, screw-adjustable wire gauge	✔	✔		5.0 x 3.0	4.95	4.49
215889	BenchPro	JE-2022C	5" cutter/strippers, 10-24 AWG, spring return, dial to adjust wire gauge	✔	✔		5.0 x 3.0	4.95	4.49
159274	Hanlong	HT-1091	5" cutter/strippers, 20-24 AWG, spring-loaded, insulated grips, 45° angle	✔	✔		5.0 x 3.0	4.95	4.49
2112284	BenchPro	GTA-002	Automatic wire strippers, 10-24 AWG, spring-loaded handle w/ wire stopper	✔	✔		6.8 x 3.2	8.95	7.95
159291	Hanlong	HT-5023	6.6" cutter/strippers, 20-30 AWG,cuts steel wire, scale markings in AWG/mm	✔	✔		6.6 x 2.0	9.95	8.95
99443	Hanlong	HT-202A	Non-insulated terminal crimper, for D-subs and non-insulated connectors	✔		✔	7.3 x 1.5	9.95	8.95
159266	Hanlong	HT-213	D-sub crimper, crimps D-sub pins and sockets, works with 20-28 AWG wire	✔		✔	7.0 x 4.0	12.95	11.95
2196879	Pro's Kit	200-080	2-in-1 cutter/stripper tool, 14-26 AWG, hardened stainless steel blades	✔	✔		5.0 x 3.0	14.95	13.95
161200	Ideal	45-120	6" cutter/strippers, strips 12-20 AWG stranded, 10-18 AWG solid, plier nose	✔	✔		6.0 x 2.0	17.95	15.95
161218	Ideal	45-121	6" cutter/strippers, strips 16-26 AWG stranded, 14-24 AWG solid, plier nose	✔	✔		6.0 x 2.0	19.95	17.95
175098	BenchPro	GTA-006H	Automatic strippers, 8-22 AWG, spring-loaded handle with wire stopper	✔	✔		7.0 x 3.5	16.95	14.95
18797	Hanlong	HT-1041	7-in-1 wire-handling tool, 10-18 AWG, steel wire cutter, wire loop, red	✔	✔	✔	6.6 x 3.0	6.95	6.25
127862	Hanlong	HT-1042	7-in-1 wire-handling tool, 16-26 AWG, steel wire cutter, wire loop, blue	✔	✔	✔	6.6 x 3.0	6.95	5.95
127871	Hanlong	HT-1043	7-in-1 wire-handling tool, 22-30 AWG, steel wire cutter, wire loop, orange	✔	✔	✔	6.6 x 3.0	6.95	5.95
2153078	BenchPro	GRK-42N	8.5" cutter/crimper/stripper, ergonomic grip, 10-22 AWG, wire gauge markings	✔	✔	✔	8.5 x 3.0	7.95	6.95
2192376	BenchPro	HT-N5684	7.5" modular crimping tool, 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11,4P4C and 4P2C	✔	✔	✔	7.5 x 3.0	16.95	14.95
159312	Hanlong	HT-568R	Ratcheted modular connector crimper, RJ45 (8P8C) and RJ11/12 (6P6C) plugs	✔	✔	✔	7.5 x 3.0	19.95	17.95
174676	BenchPro	TTK-070	Modular crimping tool, for RJ11 and RJ45 modular plugs, repeatable crimping	✔	✔	✔	8.5 x 2.2	24.95	23.49

Erem® High-Precision Cutters

100% guaranteed against defects! ▲APEX

- Internal Magic Springs for constant "fatique-free" operation for over 1 million openings
- High-Precision Inter-lock Screw Joint System for smooth, wobble-free operation
- The finest ESD-safe cushion grips for superior comfort and protection
- Compacted Eremadium® steel implanting extra strength to the tool
- Re-sharpenable razor edges • Swiss-made
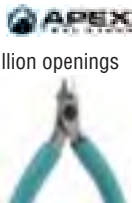
2192350

Part No.	Mfr. P/N	Description	1	5
2192350	776E	4.25" super full flush cut	$79.95	72.95
2192368	622N	4.50" full flush cut	59.95	53.95

molex Hand Tools for Mini-Fit™ Jr.

304928

304936

304928: • Accepts wire range from 14-24 AWG
- Insulated small handle spread design
- Great for open-barrel terminals

304936: • For the removal of Mini-Fit Jr™ crimped terminals series from their housings

Part No.	Mfr. Part No.	Description	1	5
304928	63811-1000	Crimp tool	$49.95	$44.95
304936	11-03-0044	Extraction tool	21.95	19.95

★ *Crimping Tools — Enter Web Code GBU*

Pro'sKit 34-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver
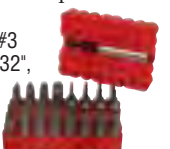
Part No.	Description	1	10
223829	32-piece security bit set	$13.95	$12.95

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Test/Tools

Xcelite EXIMCORP JAMECO BenchPro   Pliers

★ *Web Code: XPC*

34796	34622	94512	94554	34762	104257	104249	98993	35474	35491

177608	34712	42104	2180172	217891	152055	73121	217998	146721	2100161
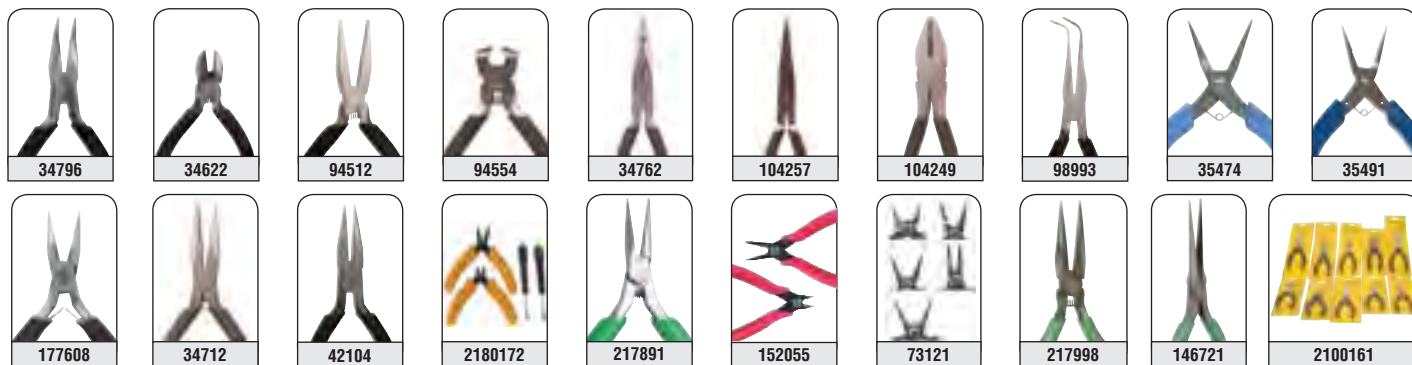
Part No.	Manufacturer	Mfr. Part No.	Description	Length	1	5
34796	Eximcorp	BN2497	Bent oval nose pliers with serrated jaws, forged steel, heat-treated, insulated grips*	4.5"	$3.95	$3.59
34622	Eximcorp	ES2494	Diagnal tapered spring loaded cutters, heat treated forged steel, insulated handle	4.5"	3.95	3.49
94512	Eximcorp	SN2468	Standard square nose pliers with serrated jaws, forged steel, heat-treated, insulated grips*	5.5"	3.95	3.59
94554	Eximcorp	NP2491	Standard nipper nose pliers, spring-loaded, forged steel, heat-treated, insulated grips*	4.25"	3.95	3.59
34762	Eximcorp	BNC2493	Standard bent oval nose pliers with cutters, serrated jaws, forged steel, heat-treated, insulated grips*	7.0"	3.95	3.59
104257	Eximcorp	SP2460	Sportman's straight square pliers, forged steel, heat-treated, insulated grips*	8.0"	3.95	3.59
104249	Eximcorp	EP2488	Electrician's pliers with cutters, serrated jaws, forged steel, heat-treated, insulated grips*	8.25"	4.95	4.49
98993	Eximcorp	SBP2459	Sportman's square bent pliers, forged steel, heat-treated, insulated grips*	7.5"	4.95	4.49
35474	BenchPro	GPL-204-R	Flat long nose, stainless steel, spring return, durable rubber handles, knurled jaws	5.3"	5.95	5.39
35491	BenchPro	AX104-R	Half round long nose, stainless steel, spring return, durable rubber handles, knurled jaws	5.3"	5.95	5.39
177608	BenchPro	GPL-172	Half round long nose, drop forged steel, heat treated, spring return, vinyl grips, knurled jaws	4.5"	4.95	4.49
34712	Eximcorp	NNC2480	Needle oval nose pliers with cutters and serrated jaws, forged steel, heat-treated, insulated grips*	5.25"	5.95	5.39
42104	Eximcorp	SN2481	Needle flat nose pliers with serrated jaws, forged steel, heat-treated, insulated grips*	5.25"	5.95	5.39
2180172	BenchPro	MP-810	4-pc. tool set (side cutter, long-nose plier, flathead & philips screwdrivers), high grade carbon steel	5"-6"	11.95	10.95
217891	Xcelite	L4V	Subminiature needle nose pliers, cushioned grips, general purpose use	4.0"	19.95	17.95
152055	Xcelite	S2K	Shearcutter pliers set with 5.6" needle nose plier and 5.2" electronic flush cutter, made of carbon steel	5.6" / 5.2"	19.95	17.95
73121	BenchPro	PLIERS 5PC-R	5-Piece precision stainless steel pliers set (micro cutting, micro round, long nose, flat nose, bent nose)	4.0"	19.95	17.95
217998	Xcelite	LN54GV	Thin long nose pliers with cushioned grips, smooth jaws, general purpose use	5.0"	19.95	17.95
146721	Xcelite	NN7776V	Long needle nose flat pliers with cushioned grips, smooth jaws, general purpose use	5.0"	22.95	20.95
2100161	Eximcorp	EXIM10	10-piece pliers & cutters tool kit w/ the pliers marked above with an*	4.25-8"	29.95	26.95

Hi-Speed Steel Step Drill Bit & Set

229657

2169731

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal and wood up to 1/8" thick.

- Heat-treated, high speed steel with titanium coating
- 2 flute design for faster, smoother and cleaner cuts

229657: • 3/8" round shank

2169731: • 1/4" quick change hex shank
• Includes 3 pieces: 3/16" - 1/2" 6-step; 1/4" - 3/4" 9-step; 1/8" - 1/2" 13-step

Part No.	Description	1	10
229657	3/16" – 7/8" 13-step	$14.95	$13.49
2169731	3-piece set	16.95	14.95

★ *Drills and Bits — Enter Web Code NEJ*

PC Board Drill Bits

- Shaft diameter: 0.125"
- Use for drilling holes in glass PC boards

Part No.	Size	Diameter	1	10	100
1919537	1/8	0.125"	$1.25	$1.09	$.75
1919588	31	0.120"	1.25	1.09	.75
1919300	32	0.116"	1.25	1.09	.75
1919609	33	0.113"	1.25	1.09	.75
1919553	35	0.110"	1.25	1.09	.75
1919570	38	0.102"	1.25	1.09	.75
16580	59	0.040"	2.49	2.25	1.95
16619	75	0.021"	2.49	2.25	1.95

#60 Drill Bit Box Kit

- 50 pcs of #60 drill bits
- With ring protector

Includes: Storage box

Part No.	Mfr. Part No.	1	5
2208260	SD14R.0225	$29.95	$26.95

Mini-Drill and Stand

26702

This Mini-Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.

12,000 RPM

26711

Part No.	Description	Wt. (lbs.)	1	5	25
26702	GTT-103A drill	0.8	$37.95	$34.95	$31.95
26711	GTT-104 stand	1.8	27.95	25.95	23.95

Mini-Drill Bit Kit

- Mini drill (26702)
- Mini drill stand (26711)
- Drill bit sizes 75 & 59 (P/Ns 16619/16580)

Part No.	Description	Price
2113252	Mini-drill bit kit	$59.95

Cordless Drill Kit

- Dual angle cordless power screwdriver and drill
- No load speed: 200 RPM
- Size: 10.7"L x 1.6"Dia.

Part No.	Mfr. Part No.	1	10
2208711	GTT-275A	$26.95	$24.95

20-PIECE DRILL BIT GRAB BAG

Includes diameters: 0.125", 0.120", 0.116", 0.113", 0.110", 0.102", 0.040" and 0.021" Net. Weight: 4.80 oz. (0.27 lbs.)

ONLY $19.95

See page 31

Part No.	Mfr. Part No.	Price
2082038	GB202	$19.95

Test/Tools

Ball-End, Hex Key, Nut Driver & Screwdriver Sets

Bondhus/Felo Products: Inferior tools cost extra money when something goes wrong. The cost of removing a stripped or broken screw head from a tight location or replacing a damaged tool exceeds the cost of purchasing a superior tool in the first place. Get it right the first time around with these reliable tools.

- Material: Protanium high torque steel
- Ergonomically designed anti-roll handle
- Bondhus: Made in USA; Felo: Made in Germany
- Ball-end inserts quickly into screw head up to 25 degrees
- Delivers perfect balance between tip strength and working angle
- Lifetime warranty

★ Web Code: CAQ

Part No.	Mfr.	Description	1	10
34041	BenchPro	6-pc. precision screwdriver set (slotted – 3/64", 1/16", 5/64", 5/32", 1/8", 9/64")	$3.95	$3.59
34059	BenchPro	6-pc. precision screwdriver set (Phillips #0 – 1/16", 5/64", 3/32", #1 – 1/8", 9/64")	3.59	3.25
99451	BenchPro	6-pc. long neck screwdriver set (slotted – (Dia. x L) 3/32" x 6 5/8", 1/8" x 7 5/8", 5/32" x 9 5/8", Phillips – #00 x 6 5/8"L, #0 x 7 5/8"L, #1 x 9 5/8")	11.95	10.95
168735	Xcelite	XP600 6-pc ESD-safe screwdriver set, slotted & philps, vanadium steel w/ black oxide tips and case	27.95	24.95
226106	BenchPro	6-pc. precision 50 mm torx screwdriver set (Torx – T5, T6, torx hex – T7, T8, T9, T10)	12.95	11.95
2204218	Xcelite	XPTX600 6-pc ESD-safe Torx screwdriver set, vanadium steel w/ black oxide tips and storage case	32.95	29.95
2096229	Felo	6-pc. screwdriver set (slotted – 9/64"; 5/32"; 7/32"; 1/4"; Phillips – #1; #2)	36.95	33.95
2204226	Xcelite	NPND600 6-pc ESD-safe precision nutdriver set, vanadium steel, 7/64", 1/8", 9/64", 5/32", 3/16", 7/32"	32.95	29.95
2119005	BenchPro	8-pc. ratcheting screwdriver bit set (3-slotted, 3 philips, 1 square)	1.49	1.25
2157634	BenchPro	8-pc. folding hex wrench set, compact foldable design, 4" long	4.95	4.49
226094	BenchPro	11-pc. magnetic AWL prec. screwdriver set (slotted – .9, 1.2, 1.4, 1.8, 2.4, 3 mm, Phillips – #00, #0, #1)	3.95	2.95
2096173	Bondhus	12-pc. ball-end hex key set (.05"; 1/16"; 5/64",3/32"; 7/64"; 1/8"; 9/64"; 5/32"; 3/16"; 7/32"; 1/4", 5/16"	13.95	12.49
2153060	BenchPro	14-pc. mini screwdriver set with leather pouch and 12 flathead, phillips, and Torx bits	10.95	9.95
2153086	BenchPro	28-pc. set with multiple philips/slotted/torx/hex bits and adapters	15.95	14.95
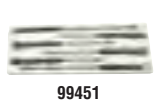
34041 **34059** **99451** **168735** **226106** **2204218** **2096229** **2204226** **2119005** **2157634** **226094** **2096173** **2153060** **2153086**
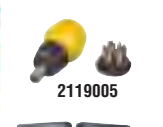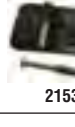
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30 AWG Wire Wrap/Strip Tool

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation.

- Modified wrap for 30 gauge Kynar wire (pg 43)
- Knurled handle for easy grip • 5" long
- Wire stripper stored in handle

Part No.	Description	1	5
2150361	Modified wrap tool	$19.95	$17.95

1/4-Watt & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"

Part No.	Description	Size (L" x W")	1	10
106884	1/4W & 1/2W	5.4 x 1.5	$4.95	$4.49

5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

115115

Part No.	Cross Ref. No.	Description	1	10
115107	HEMO1	5" straight	$3.95	$2.95
115115	HEMO2	5" curved	3.95	2.95
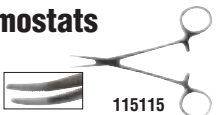
7-PIECE INSULATED SCREWDRIVER SET

- Hardened magnetic tips
- Tapered handle for sure grip
- Includes: Philips #0 x 75, #1 x 100, #2 x 100 slotted: 0.4 x 2.5 x 85, 0.8 x 0.4 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150

Part No.	Description	1	5
261999	GSD-072	$12.95	$11.49

Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 43 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long

34585

★ Web Code: BBC

Part No.	Mfr. Part No.	1	5
34585	HSM30 (Modified)	$29.95	$27.95
236785	HSR30 (Regular)	29.95	27.95

IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/ 24/28/40/42-pin ICs
- Material: durable plastic • Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

Part No.	Description	1	10	100
99363	IC straightener	$7.95	$6.95	$5.95

6" & 12" Stainless Steel Rulers

Tough and durable for on-site measurements

- Etched markings in centimeters and inches
- Conversion table from inches to millimeters

2153131

Part No.	Cross Ref. No.	Length	1	10	100
2153107	GMT-106	6"	$3.95	$3.59	$3.25
2153131	GMT-112	12"	5.95	4.95	4.49

T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

Part No.	Description	1	10
151750	T-handle reamer	$7.95	$6.95

Metal Dial Caliper

Measures in inches

- Measures outside, inside & depth
- Accurate measurements every time
- Easy-to-read dial gauge
- Materials: metal • Color: silver
- Length: 6" (150mm)

★ Web Code: PAQ

Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	5
116126	Inches (.001 inch)	$21.95	$19.95

Digital Display Calipers

Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- One-year warranty

★ Web Code: PAQ

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 115)

Part No.	Description	1	5
127482	Measures 6" (150mm)	$29.95	$26.95
2175251	Measures 6" (150mm)	32.95	29.95
2153545	Measures 8" (203mm)	34.95	31.95

Tweezers

★ Web Code: FAA

252929: Straight round, fine-point tip, stainless steel
253092: Curved fine-point tip
252938: Self-closing reverse-action tweezers; medium point tip; stainless steel
253113: Fine-point tip, insulated, anti-static
252912: Straight fine-point tip, tapered

Part No.	Length	Photo	1	10	25
252929	4.75"	1	$2.95	$2.49	$1.95
253092	4.6"	2	2.95	2.49	1.95
252938	4.6"	3	3.95	3.59	3.25
253113	4.75"	4	2.95	2.49	1.95
252912	4.75"	5	3.95	3.59	3.25

Test/Tools

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

4-Piece Steel Tweezer Set

JAMECO BenchPro

• 4 styles of stainless steel tweezers, one self-locking

Part No.	Description	1	10	100
10735	4-piece tweezer set	$5.95	$5.49	$4.95

4-Piece Non-Conductive SMD Tweezer Set

velleman

• 4 type of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
• 4.5" long

Part No.	Mfr. Part No.	1	5
2196861	VTTWSET2	$6.95	$6.49

Vacuum Tweezers

EFD XYTRONIC

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.
• Easy interchangeable tips
• ESD safe body

88268

Part No.	Mfr.	Includes	1	5
207239	Xytronic	4 tips/cups	$19.95	$17.95
2183939	Xytronic	3 tips/cups	24.95	22.95
88268	EFD	7 tips/cups (.14"-.4") ...	39.95	37.95

PLCC & DIP IC Extractors

JAMECO BenchPro

★ *Web Code: MAB*

16838 **2157600** **2173175** **16766**

Part No.	Manufacturer	Description	1	10	100
16838	BenchPro	DIP	$1.95	$1.75	$1.49
2157600	BenchPro	3-prong	3.95	3.59	3.25
2173175	BenchPro	PLCC	3.49	2.95	2.49
16766	Velleman	PLCC	3.95	3.49	2.95

Magnifying Lamps

XYTRONIC JAMECO BenchPro velleman

★ *Web Code: DAW*

For anyone working with precision assembly, inspection or design, these magnifying lamps are essential for the workbench. Whether with incandescent or LED light, our selection will have you choose what best suits your needs to help reduce eye strain and vision fatigue. Easily view the smaller details today!

NEW MARKED IN PINK

2210618/2210600 **2120330** **217517** **2196924** **2210597**

Part No.	Diopter	Lamp Size	Length	Shape	†Type	# of Bulbs	Watts	Color	Wt. (lbs.)	1	5
22710	3	4"Diameter	30"	Circular	INC	1	60	Beige	2.9	$26.95	$23.59
2210618	3	5"Diameter	39"	Circular	LED	90	5.4	White	5.6	84.95	79.95
100829	3	5"Diameter	45"	Circular	INC	1	22	Black	7.3	59.95	54.95
149981	3	5"Diameter	45"	Circular	INC	1	22	White	7.3	59.95	54.95
2120330	3	7"Diameter	30"	Circular	LED	4	3.4	White	21	129.95	116.95
217517	3	7"L x 4.5"W	47"	Rectangular	INC	3	9	Beige	7.6	79.95	74.95
2196924	5	5"Diameter	36"	Circular	LED	90	5.5	White	6.8	99.95	89.95
2210600	5	5"Diameter	39"	Circular	LED	45	9.4	White	5.4	99.95	89.95
197456	5	5"Diameter	40"	Circular	INC	1	22	White	7.1	89.95	79.95
2210597	5*	7"Diameter	36"	Circular	LED	102	16.8	White	10.8	269.95	249.95

*Also contains 5 UV LEDs †INC = Incandescent

Anti-Static Heel Strap

• Discharges static without restricting your mobility
• Ground strap length: 24"L

Part No.	Description	1	10	25
2204437	Strap w/ 1MΩ resistor	$5.95	$5.49	$4.95

Anti-Static Work Mats

JAMECO BenchPro

These mats are made of attractive semi-conductive vinyl that provide adequate discharging yet will not short leads or pins.

236541

Part No.	Dimensions	Wt. (lbs.)	1	10	25
10576	11.3" x 22"	0.7	$9.95	$8.95	$7.95
10584	19.5" x 23.5"	1.1	13.95	12.49	10.95
2130853	19.7" x 23.6"	1.1	14.95	13.95	12.95
236541	23.5" x 27.5"	1.4	24.95	22.49	19.95
2152075	24" x 48"	3.9	69.95	64.95	59.95

★ *Anti-Static — Enter Web Code XAA*

Field Service Static Kit

JAMECO BenchPro

• 4 pocket for ESD safe storage
• 10' ground strap and 6' wrist strap share on one ground point
• Size: 2' x 2.13'

Part No.	Cross Ref. No.	1	5	25
2113720	8PK-AS07-1	$15.95	$14.95	$13.95

22"L Anti-Static Plastic DIP IC Storage Rails & Rubber Rail Stops

29524 (ICs not included) **29583**

29516: .300" rail fits 8, 14, 16, 18, 20 and 22-pin ICs
29524: .600" rail fits 24, 28, 36 and 40-pin ICs
29583: Rubber stops used to plug plastic rail ends
Note: previously used

✳ Order in multiples of 10

Part No.	Product No.	Description	1	10	100
29516	RIC20	.300"W rail	$.29	$.25	$.22
29524	RIC220	.600"W rail	.29	.25	.22
29583	RRS	Rubber stop .... ✳		.09	.07

Anti-Static Wrist Straps

• Comfortable, adjustable black Velcro wrist strap
• The coiled grounding cord has banana plug and alligator clips
• Extended cord: 9'L (2131266: 6'L)

2202087

Includes: 1MΩ resistor for added safety

Part No.	Mfr.	Color	1	10	100
34552	BenchPro	Blk/yellow	$6.95	$6.49	$5.95
2131266	Velleman	Black/yellow ...	4.95	4.49	3.95
2202087	3M	Disposable	4.95	4.49	3.95

Conductive Anti-Static Bags and Foam

JAMECO BenchPro

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

13864

13864: 24"L x 12"W x 0.25"H

✳ Order in multiples of 10

Part No.	Description	1	10	100
249519	4" x 6" anti-static bags, pink ..... ✳		$.15	$.10
249527	5" x 7" anti-static bags, pink ..... ✳		.19	.12
2202247	5" x 7" anti-static zip, gray	.39	.29	.19
78650	8" x 10" anti-static bags, gray ...	.39	.29	.25
13864	Anti-static foam	11.95	10.95	9.95

Visor Magnifier w/ Light

velleman

• Power supply: 4 AAA batteries (not included)
• Adjustable dioptry: 1.8/2.3/3.7/4.8
• Size: 7.9"L x 2.4"W x 5.5"H

Part No.	Mfr. Part No.	Wt. (oz.)	1	10
2131119	VTMG6	5.3	$7.95	$6.95

LED Lighted Helping Hand

• Built-in LED light
• 2.5" magnifier lens with adjustable neck
• 2 alligator clips
• Soldering iron holder
• Size: 10.5"L x 5.2"W x 2.6"D

★ *Web Code: YAU*

Part No.	Mfr. Part No.	1	5
2168448	55133	$14.95	$13.95

Illuminated 1.5X Magnifier

JAMECO BenchPro

• 3.5"Dia. x 7.5"L
• Light requires 2 AA batteries (not included, recommend P/N 198707, pg 115)

Part No.	Description	1	10
149542	Illuminated magnifier	$3.95	$3.59

BEST SELLING SOLDERING STATIONS

2144577

Part No.	Description	Page	Price
146595	5W to 40W, analog	132	$54.95
2082775	80W, analog	133	66.95
2099198	100W, digital	133	399.95
2144577	700W, digital	133	299.95
2174741	1000W, digital	134	249.95

Test/Tools

Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3"L x 6.3"W

Part No.	Description	1	5	25
72696	Glue gun	$7.95	$7.29	$6.49
78633	Glue sticks (6/pk)	2.95	2.49	1.95

Weller Light-Duty Battery-Powered Soldering Irons

Battery-powered cordless soldering iron for ultimate portability.

- Over 100 solder joints with new batteries
- Long lasting iron-plated conical tip
- Improved heater performance
- Batteries included

2196043

Part No.	Mfr. Part No.	Wattage	1	5
2196035	BP650MP	4.5	$19.95	$17.95
2196043	BP865MP	6-8	24.95	22.95

Weller 18-Watt Pro Series Soldering Iron

- Heats up to working temperature in just 35 seconds
- Up to 900°F temperature
- Co-molded grip for a comfortable feel
- Performance equivalent to a 60 watt iron
- Designed be self-standing, no stand is needed
- Tips use a phono jack and plug for easy tip exchange • UL and CUL listed
- Ideal for hobbies, kits, radios and electronics

Includes: Charger and WPS10 soldering tip

Part No.	Mfr. Part No.	Description	1	5
2153810	WPS18MP	18-watt iron	$27.95	$26.49
2158637	WPS11	0.03125" chisel tip	9.95	8.95
2158629	WPS10	0.03125" conical tip	9.95	8.95

velleman 20-Watt Soldering Iron

A high-quality, mains-powered soldering iron for general purposes.

- Power supply: 20W/110VAC
- UL approved
- Cord length: 5 feet

Includes: Iron stand

Part No.	Mfr. Part No.	1	5
2131151	VTS20U	$6.95	$6.39

XYTRONIC 25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • UL listed
- 25-watt power consumption
- Interchangeable tips (pg 134)
- Length: 8.0" • One-year warranty

Includes: 1.6mm conical tip

Part No.	Mfr. Part No.	1	5	25
129040	200GX-25W	$14.95	$13.49	$11.95

★ Soldering Stands — Enter Web Code YAU

NTE BenchPro Heat Guns and Strippers

Weller MASTER ★ Web Code: QAJ

All Master® products are made in the US from superior quality materials and the finest craftsmanship. Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering and many other applications where heat is required.

2117413   254925   76865

2076501: • No-slip adjustable stand
• Weight: 4.0 lbs.
191943: • 3-pos. switch (hot/off/cool)

2076501   191943   2007062

Part No.	Mfr.	Product No.	Description	Watts	Heat Setting (°F)	Temp. (°F max.)	1	5
2117413	NTE	HG300-D	Mini heat gun	350	482-662	662	$21.95	$20.95
254925	BenchPro	1001A	Economical heat gun	1200	600 & 1000	1000	44.95	39.95
76865	BenchPro	G1HG1	Heat gun/stripper	1500	600 & 1100	1100	49.95	44.95
2076501	Master	HG-501A	Industrial heat gun (23 CFM)	1680	750	750	149.95	139.95
191943	Weller	6996C	Industrial heat gun	250	750-800	800	142.95	134.95
2007062	BenchPro	1004	Accessory kit for P/N 254925	—	—	—	11.95	10.95

velleman Butane Powered Cordless Soldering Iron

- Built-in on-off switch
- Can be used as a torch or hot blower
- Maximum temp.: 450°C (842°F) • Length: 8.5"

Part No.	Description	1	5
645520	Butane soldering iron	$26.95	$23.95
2097491	5 oz. butane gas refill	6.95	5.95

XYTRONIC 16 to 30-Watt Variable Soldering Iron & Stand

116572: Length: 7.5"
36329: • Black anodized steelbase – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" dia.

116572
134631

Includes: Sponge
36329

Part No.	Description	1	5	25
116572	258VL soldering iron	$19.95	$17.95	$15.95
36329	Soldering stand	5.95	5.39	4.79
134631	Sponge (for P/N 36329)	2.95	2.59	2.29

XYTRONIC 35-Watt SMD Tweezer Iron

- Max. temp.: 760°F   168410
- 120VAC input
- Max. efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Heater power consumption: 35W ea.

Includes: 0.078" tip
168583

Part No.	Description	1	5	25
168410	Tweezer iron	$54.95	$49.95	$44.95
168583	Tip .078"	10.95	9.95	8.95
168591	Tip .590"	10.95	9.95	8.95

Weller LED Soldering Irons

- 3 high-temperature LEDs with 25 lumen light intensity
- Each iron includes soldering aid tool, tip and user's manual
- 2174901/2174928 includes soldering aid tool, lead-free solder and 2 spare soldering tips
- Cord strain relief for extended life
- Durable cable with 5-foot reach

Part No.	Mfr. Part No.	Description	1	5
2174899	SP15NUS	15W soldering iron	$17.95	$15.95
2174901	SP25NKUS	25W soldering iron kit	19.95	18.95
2174936	SP40NUS	40W soldering iron	21.95	19.95
2174928	SP40NKUS	40W soldering iron kit	24.95	23.95
2174944	SP80NUS	80W soldering iron	29.95	27.95

LED Illumination

XYTRONIC 40 & 60W High-Performance, Economical Soldering Irons

- Iron length: 9"
- 120VAC; 6' cord with 3-prong plug
- High-performance double-wound nichrome heating element
- Flexible, burn-resistant silicon cable

Part No.	Description	1	5	25
224602	40W soldering iron	$13.95	$12.95	$11.95
195223	60W soldering iron	12.95	11.49	10.49
226018	Conical tip for P/N 224602	2.95	2.75	2.49

Weller 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip   170587
- Quick change knurled collar • Length: 9"

Includes: Power cord & ST3 tip (pg 132)

Part No.	Mfr. Part No.	Description	1	5
170587	WP25	25W solder iron	$42.95	$38.95
192102	WP35	35W solder iron	51.95	49.95
146608	ST1	Screwdriver tip 1/16"	5.95	4.95
146616	ST3	Screwdriver tip 1/8"	5.95	4.95
192145	ST6	Screwdriver tip .031"	5.95	4.95
146624	ST7	Conical tip 1/32"	5.95	4.95

XYTRONIC 60-Watt Replacement Soldering Iron

- Compatible with the following XYtronic soldering stations: 168-3C, 168-3CD, 9-60A and 9-60D.

Part No.	Mfr. Part No.	1	5
2144649	XY-207ESD	$39.95	$35.95

★ Soldering Irons — Enter Web Code QAS

Test/Tools

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- Length: 6"
- 120VAC @ 60Hz input • Weight: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 700°F)

192081

Part No.	Mfr. Part No.	Description	1	5
192081	W100PG	Solder iron	$64.95	$59.95
192090	CT6F7	.375" screwdriver tip ..	9.95	8.95

Weller® 25 to 125-Watt Cordless Soldering Iron Kit

- Self-igniting and instant heat
- Adjust. temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting
- Use with butane refill (P/N 2097491, pg 131)

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Mfr. Part No.	1	5
152207	PSI-100K	$109.95	$99.95

JAMECO ValuePro 30 to 100-Watt Soldering Kit

Includes: 30W soldering iron
- 100W soldering gun with extra tip
- Manual desoldering pump
- Mini third-hand board/ component holder
- Soldering aid tool
- Lead solder
- Size: 13.8"L x 11"W x 3"H

Part No.	Product No.	Wt. (lbs.)	1	5
684596	GSR-600A	4.0	$39.95	$35.95

WAHL® 25-Watt Cordless Soldering Iron

IsoTip® Power Pro Model #7904
- **900˚F tip temperature**
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron • Weight: 1.1 lbs.

Includes: Iron, charging stand, battery pack and tips

Part No.	Description	Price
132783	Power Pro cordless iron	$69.95

★ *Soldering Irons — Enter Web Code QAS*

SOLDERING AND DESOLDERING 141786

For a complete selection of soldering and desoldering accessories, go to page 136.

Part No.	Description	Price
170457	99.3 SN, 0.3 CU, 15 feet	$3.25
141786	60 SN, 40 PB, 1.0 lb.	32.95
2158178	63 SN, 37 PB, 1.0 lb.	29.95

Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temperature is electronically controlled from 350°F to 850°F
- Illuminated on/off switch • Light weight pencil iron
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip and manual

Part No.	Mfr. Part No.	1	5
146595	WLC100	$59.95	$53.95

Weller® Soldering Tips

ST Series: Replacement tips for WLC100, WP25, WP30, WP35 soldering irons and stations. Precision ground copper tips plated with iron, nickel and chromium

★ *Web Code: NAB*

ET Series: Replacement tips for PES51 soldering pencil (P/N 2082847). Contains a sensor hole in base of tip fitted with a stainless steel liner

MT Series: Replacement tips for SP23 and SP23D soldering irons. Solid copper tips, nickel-plated and tinned

146608
146616   146624   2137983
16774   16782   16803
2137991   16811   2138003
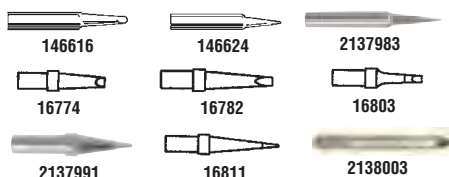
Part No.	Mfr. P/N	Description	1	5
192145	ST6	Screwdriver tip 1/32" ...	$5.95	$5.39
146608	ST1	Screwdriver tip 1/16"	5.95	5.39
2137975	ST2	Screwdriver tip 1/10"	5.95	5.39
146616	ST3	Screwdriver tip 1/8"	7.95	6.95
146624	ST7	Conical tip 1/32"	6.95	6.25
2137983	ST5	Single flat tip 1/32"	6.95	6.25
16774	ETA	Screwdriver tip 1/16"	6.95	6.25
2138020	ETH	Screwdriver tip 1/32"	6.95	6.25
16782	ETJ	Long screwdriver tip 1/32"	6.95	6.25
16803	ETR	Narrow screwdriver tip 1/16"	6.95	6.25
2137991	ETP	Conical tip 1/32"	6.95	6.25
16811	ETS	Long conical tip 1/64"....	6.95	6.25
2138011	ETO	Long conical tip 1/32"	6.95	6.25
2138003	MT1	Cone-shape tip 1/8"	7.95	6.95

Weller® Soldering Tip Care

- Tip thinner and activator • 1.5 oz.

Part No.	Mfr. Part No.	Price
2188043	51303199	$13.95

velleman 50W Soldering Stations

- Manual temperature setting
- Electronic temperature control
- Power-on LED indication
- Input voltage: 115VAC
- Input power: 50VA max.
- Temp. range: 374°F to 896°F (2130626); 302°F to 842°F (2196801)
- Size: 7.3" x 4.0" x 3.5" • Weight: 1.6 lbs.

Includes: AC cord, iron stand and sponge

Part No.	Mfr. Part No.	Description	1	5
2196801	VTSS4NU	48W station	$24.95	$21.95
2130626	VTSS5U	50W station	29.95	26.95
2174864	BITS5	Conical tip	2.95	2.65

Weller® 60-Watt ESD-Safe Soldering Station

- Temperature controllable: 600°F, 700°F or 800°F
- Closed-loop method of controlling maximum tip temperature to protect sensitive components
- Ferromagnetic temperature sensor, no adjustments necessary
- Quick disconnect plug for soldering iron and lighted on/off switch
- Impact-resistant plastic power unit
- Input: 120VAC @ 60Hz
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: Power unit, soldering pencil with PTA7 tip (below), stand and sponge

Part No.	Mfr. P/N	Description	1	5
170552	WTCPT	Solder station	$189.95	$174.95
192161	TC201T	Replacement iron	99.95	89.95
192188	PTA7	Screwdriver tip 700°F	6.95	6.25

★ *Soldering/Desoldering Stations — Enter Web Code GEJ*

★ *Soldering Tips & Sponges — Enter Web Code NAB*

XYTRONIC 60 & 80W Lead-Free Digital Soldering Stations

Grounded Soldering Tip

2174733

- 150°C to 480°C (302°F to 896°F)
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 4.1"L x 3.5"W x 3.5"H • Weight: 2.5 lbs.

Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

156814: Sharp conical chisel tip
156822: Conical chisel tip

Part No.	Mfr. Part No.	Description	1	5
2174733	LF-389D	60W station	$59.95	$53.95
2193782	LF-399D	80W station	64.95	58.95

Part No.	Mfr. Part No.	Description	1	5
156814	XYB01	1/32" tip	$4.95	$4.49
156822	XYB04	1/16" tip	4.95	4.49
134631	SP715	Sponge	3.95	3.59

Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity • Temp. accuracy: ±9°F
- Temperature range: 350°F to 850°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

233533

Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Mfr. Part No.	Description	1	5
217461	WES51	Analog	$134.95	$121.95
233533	WESD51	Digital	189.95	169.95
2082847	PES51	Soldering iron	49.95	44.95
2082783	WCC104	Replacement sponge ..	3.95	3.59

Test/Tools

70 & 80-Watt Lead-Free Soldering Stations

- Input: 110-120VAC @ 60Hz
- Soldering iron assembly
- Adjustable knob for temperature setting
- Weight: 5.3 lbs.

1950711

Includes: soldering station, soldering stand with cleaning pad, soldering iron and manual

1950711: 70-Watt Analog
- With nichrome heating element & K-type thermocouple sensor • Size: 8.0"L x 5.2"W x 3.8"H
- LED to indicate power (green), heater on (red)
- Temp. acc.: ±3°C • Uses model 209 soldering iron
- Temp. range: 200°C to 450°C (329°F to 842°F)

2205860: 80-Watt Digital
- Temp. accuracy: ±3°C • Size: 4.2"L x 5.0"W x 3.6"H
- Temp range: 200°C to 480°C (392°F to 896°F)
- Uses 108ESD soldering iron assembly • ESD safe

Part No.	Mfr. Part No.	Description	1	5
1950711	169	70W analog ...	$84.95	$79.95
2205860	108ESD	80W digital	39.95	36.95

80-Watt High-Power Stained Glass Soldering Station

- 100-120VAC @ 60Hz
- On/off switch with "power on" indicator light
- Temperature range: 482-923°F (250-500°C)
- Variable power control
- Safety guard iron holder • Cushioned foam grip

Includes: 2 solder tips, AC cord, iron stand, metal wool tip cleaner

Part No.	Mfr. Part No.	1	5
2118467	LT-80	$39.95	$34.95

Weller® 80-Watt Soldering Station

- 120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 to 80 watts
- Temperature: 350°F to 900°F
- Size: 5.5"L x 4.5"W x 3.5"H
- Weight: 2.1 lbs.

2082775

Includes: MTG20 3/8" chisel tip, iron stand, sponge, AC cord and manual

Part No.	Mfr. Part No.	Description	1	5
2082775	WLC200	Soldering station ..	$66.95	$63.95
2082821	MTG22	3/8" cone tip	12.95	11.95
2082783	WCC104	Sponge	2.95	2.59

Weller® 85-Watt Digital Lead-Free Soldering Station

- New WP80 soldering pencil with short tip-to-grip (52mm)
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WDH10 soldering stand
- Size: 15.4"L x 10.2"W x 5.2"H • Weight: 8.2 lbs.

Includes: LTB tip, iron stand, sponge and AC cord

Part No.	Mfr. Part No.	1	5
684772	WD1002	$346.95	$329.95

★ *Soldering/Desoldering Stations — Enter Web Code GEJ*

90 & 120-Watt ESD Safe, Digital Lead-Free Soldering Stations

- Input: 220-240VAC @ 50Hz, 100-120VAC @ 60Hz
- 0-volt. switching circuitry
- Precise temp. regulation
- Heater/sensor failure detection
- PTC sensor for quick heat-up time
- Temperature range:
  2143970: 100°C to 500°C (212°F to 932°F);
  2181503: 200°C to 500°C (392°F to 932°F)
- Temp lock out feature, password protected
- High-quality sensor and heat transfer technology
- Aluminum housing • Size: 4.4"W x 6.2"H x 5.4"D

Includes: Separate iron holder with brass tip cleaner, soldering tip and AC cord

Part No.	Mfr. Part No.	Wattage	1	5
2143970	LF-3000	90W	$119.95	$109.95
2181503	LF-3200	120W	134.95	124.95

Replacement Sponges for Legacy Model Soldering Stations

134640: For 138-3
134631: For XY-60D, XY-379 & XYT379-C

236460

Part No.	Mfr. Part No.	Size (in.)	1	5	25
134640	SP815	1.8 x 1.8	$2.95	$2.59	$2.39
134631	SP715	1.7 x 2.1	2.95	2.59	2.29
236460	SP715	1.7 x 2.1	2.95	2.59	2.29

6-Watt Portable USB Soldering Iron

- Professional grade soldering tip
- Achieves max. temp. of 896°F/480°C via 9V battery or USB connection
- Rating: 5V @ 800mA
- Built-in ultra bright LED light
- Heats up in just 20 seconds
- Perfect for soldering SMD components
- Energy-efficient, only consumes approx. 5W

Includes: 9V battery adapter, USB cable Y-adapter and sponge

Part No.	Mfr. Part No.	Size	1	5
2173618	MSD-086	5.8"L x 0.6"W ..	$19.95	$17.95

CHIPQUIK® SMD Removal Kit

- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins

Includes: 2.5 feet removal alloy material, 1cc syringe rework paste flux, alcohol pads for cleaning and complete instructions

Part No.	Description	1	5
141305	SMD removal kit	$15.95	$14.49

HAKKO 70-Watt Digital ESD-Safe Soldering Station

- Adjustable temp. control
- Temp. range: 122°F to 896°F (50°C to 480°C)
- Ceramic heating element and sensor ensures rapid heat-up temperature and fast thermal recovery
- Password protected temperature setting

Includes: iron stand, brass wool cleaner, sponge, AC cord, conical tip

Part No.	Mfr. Part No.	1	5
2174611	FX888D-29BY/P	$119.95	$114.95

80-Watt Lead-Free Desoldering Station

- Input voltage: 100-120VAC @ 60Hz
- Heater: 32V, 80W
- Adjustable temperature without changing tips
- Tip temperature accurate to ±3°C (6°F)
- Temperature range: 300°C to 450°C (572°F to 842°F)
- Size: 7.9"W x 9.3"D x 4.5"H • Weight: 13 lbs.

Includes: DIA80 desoldering iron, 2 soldering stands, foam filters, & cleaning brush

Part No.	Mfr. Part No.	1	5
1919094	LF-6000	$299.95	$284.95

100-Watt Soldering & Desoldering Station with Fume Extractor

- Input voltage: 110-120VAC @ 60Hz
- Soldering iron: 32VAC/100W 150°C to 480°C (302°F to 896°F)
- Desoldering iron: 32VAC/100W 300°C to 450°C (572°F to 842°F)
- Heater and sensor failed detection and temp. lockout features • Digital temp. readout
- Size: 4.2"W x 3.6"D x 5.0"H • Weight: 28 lbs.

Includes: 307A soldering iron, DIA100 desoldering iron, soldering stands, fume extractor, AX205 micro cutting pliers, 5-piece high precison tweezers, filter and cleaning accessories, AC power cord and manual

Part No.	Description	1	5
2099198	LF-8800 station	$399.95	$379.95
2095509	Desolder tip 1.2mm	7.95	6.95
2095517	Desolder tip 1.5mm	7.95	6.95

200-Watt 2-Ch Soldering Station

- Digital read-out display
- Password protection
- Heater/sensor failure detection
- Aluminum alloy, EMI protected housing
- 100W power per channel
- Temperature range of each channel: 212°F to 896°F (100°C to 480°C)

Includes: 2 irons, 2 tips, 2 iron stands with brass cleaners, user's manual

Part No.	Mfr. Part No.	1	5
2205894	LF-5200	$269.95	$249.95

700-Watt Lead-Free Multi-Function Surface Mount Rework Station

- 3-in-1 design: soldering, desoldering, hot air
- Heater/sensor failure detection
- Auto cooling design
- Temp. range: 212°F to 896°F
- Weight: 24.5 lbs.

Includes: AC cord, 5-piece tweezers, replacement heating element, cleaning element, 4-piece nozzle set, iron/hot air gun holders and IC popper

Part No.	Mfr. Part No.	1	5
2144577	LF-855D	$299.95	$279.95

★ *SMD Rework Stations — Enter Web Code NAT*

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
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Test/Tools

80-Watt SMD Rework Stations

2120541

2099219

- Thermocouple sensor for stable temp.
- Rapid heat-up and recovery

2120541: • Size: 7.4"L x 5.0"W x 3.3"H   • Wt.: 2.6 lbs.
- Adjustable temperature: 482°F-842°F (250°C-450°C)

2099219: • Size: 8.8"L x 6.0"W x 4.5"H   • Wt.: 6.8 lbs.
- Adjustable temperature: 392°F-896°F (200°C-480°C)

Includes: Base power unit, sponge, stand, surface mount tweezer iron and stand for tweezers

Part No.	Description	1	5
2120541	SMD rework tweezer station	$59.95	$54.95
2099219	Soldering & tweezer combo station	139.95	129.95
168583	SMD tweezer tip (0.078")	10.95	9.95
168591	SMD tweezer tip (0.59")	10.95	9.95
156814	SMD conical tip (1/32")	4.95	4.49

30-Watt Solder Tool Kit

Includes: Soldering iron with stand, long nose pliers, wire strippers, side cutters & sponge

Part No.	Description	1	5
358598	7-piece tool soldering kit	$15.95	$14.95

JAMECO BenchPro 6-Piece Solder Aid Tool Kit

Includes: Various tips: chip holder, spacer, reamer, lever, needle, knife, fork shaft, hook and brush

Part No.	Cross Ref. No.	1	5
2096000	GSR-107	$6.95	$6.25

600 & 1000-Watt Lead-Free Hot Air SMD Rework Stations

2128032

2174741

2174709

- Incorporates the largest pump in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Adjustable air-flow: 2128032: 1.5-40L/min; 2174741: 1.5-7.L/min.
- Nichrome heating element
- Power supply: 100-120VAC @ 60Hz or 220-240VAC @ 50Hz
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Hot air temp. range: 100°C - 480°C (212°F - 896°F)
- Temp lock-out feature, password protected
- Sensor/pump failure detection
- Static-free circuit design   • 25W diaphragm pump
- Size: 7.3"W x 5.3"H x 9.6"D   • Weight: 10.8 lbs.

2128032 includes: Extra 600W heater, 4 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC popper for IC extraction

2174741 includes: 2 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC extractor

Part No.	Mfr. P/N	Description	1	5
2128032	LF-852D	600W station	$225.95	$199.95
2174741	LF-852D-II	1000W station	249.95	229.95
2174709	A1126B	14mm² QFP nozzle	32.95	29.95
2174717	A1135B	17mm² PLCC nozzle	34.95	31.95
2174725	A1260B	18x8.6mm SOP nozzle	34.95	31.95

900-Watt Lead-Free, ESD-Safe Soldering Rework Station

- 3-in-1 design: soldering, desoldering and hot air station
- 2 LED displays
- Temperature and air pressure settings
- Temperature-lock feature
- Heater and sensor failure detection
- Input voltage: 100-120/220-240VAC @ 60Hz/50Hz
- Soldering iron temperature range: 302°F - 896°F
- Desoldering iron temperature range: 572°F - 842°F
- Hot Air temperature range: 212°F - 896°F
- Fume extractor air volume: 95/115 CFM
- Weight: 26.5 lbs.

Includes: Soldering iron, desoldering iron, hot-air iron, fume extractor, extra heating element, 2 soldering iron stands, 4 hood tips and 5 tweezers

Part No.	Mfr. Part No.	1	5
2128041	LF-853D	$599.95	$549.95

★ SMD Rework Stations — Enter Web Code NAT

JAMECO BenchPro Heat Sink & Soldering Aid Kit

100378

100503

100378: Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts

100503 Includes: Soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	25
100378	Clip-on heat sink	$1.49	$1.25	$.99
100503	7-piece soldering kit	7.95	7.49	6.95

Tips & Replacement Parts for XYtronic Soldering and Desoldering Products

★ Web Code: NAB

35318   35326   35078   35334   35115   35238   207335   207351   156814

156814 / 207327 / 156822 / 207298 / 127642 / 2095509 / 2095517 / 2135136 / 2135144 / 2135152 / 2144171 / 2144163 / 2144180 / 2144155

Part No.	Mfr. P/N	Description	169, JS1258, 258WL, LF-1600	136ESD, 379-C, 380D, LF-1600, 379*	200GX, XY960A, AESD, DESD, 168-2C	168*, 200PHG, XY960A	960D*	968	999SDA*	LF-9000, 169D	LF-1000, LF-7000, LF-6000	L307A, LF-2000, LF-8800	LF-865D, LF-3000, LF-3200	1	10	25
35318	XY48	Assembly - 60W w/ nichrome heater			✓				✓					$29.95	$27.95	$25.95
35326	XY401	Soldering tip - conical bevel 1/32"	✓		✓	✓			✓	✓				4.95	4.49	3.95
35078	XY402	Soldering tip - semi-chisel 1/32"	✓		✓	✓			✓	✓				4.49	3.95	3.59
35334	XY403	Soldering tip - conical sharp 1/64"	✓		✓	✓			✓	✓				4.49	3.95	3.59
35115	XY404	Soldering tip - conical chisel 1/16"	✓		✓	✓			✓	✓				4.49	3.95	3.59
35238	XY405	Soldering tip - semi-chisel wide 1/8"	✓		✓	✓			✓	✓				4.49	3.95	2.95
207335	XY406	Soldering tip - long conical chisel 3/64"	✓		✓	✓			✓	✓				3.95	3.49	2.95
207351	XY410	Soldering tip - chisel 3/16"	✓		✓	✓			✓	✓				4.49	3.95	3.59
156814	XYB01	Soldering tip - sharp conical chisel 1/32"		✓										4.95	4.49	3.95
207327	XYB03	Soldering tip - conical sharp 1/64"		✓										5.95	5.49	4.95
156822	XYB04	Soldering tip - conical sharp 1/16"		✓										4.95	4.49	3.95
207298	XYB05	Soldering tip - semi-wide chisel 1/8"		✓										4.95	3.95	3.59
127642	XYD12	Desoldering tip - 1.2mm (.0472")				✓	✓	✓		✓				6.95	5.95	4.95
2095509	XY12	Desoldering tip - 1.2mm (.0472")									✓			7.95	6.95	5.95
2095517	XY15	Desoldering tip - 1.5mm (.0586")				✓	✓	✓						7.95	6.95	5.95
2135136	44-710654	Soldering tip - conical 0.2mm (.007")										✓		4.49	3.95	3.49
2135144	44-710657	Soldering tip - 45° flat hoof										✓		4.95	3.95	3.59
2135152	44-710662	Soldering tip - chisel 2.4mm (.094")										✓		3.95	3.49	2.95
2144171	44-413081	Soldering tip - conical 0.5mm											✓	3.95	3.49	2.95
2144163	44-413072	Soldering tip - semi-chisel 0.8mm											✓	3.95	3.49	2.95
2144180	44-413071	Soldering tip - semi-chisel wide 3.2mm											✓	4.95	4.49	3.95
2144155	44-413069	Soldering tip - flat 1.6mm											✓	3.95	3.49	2.95

Test/Tools

Electric & Manual Desolder Pumps

- Easily disassembles for cleaning
- Replacement tips available

2168261

19166

1942139

2168261: • UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.

1942139: Size: 13.3"L x 1.0"Dia.

19166: Size: 7.8"L x 0.8"Dia.

2131215: Size: 7.5"L x 0.8"Dia.

★ *Web Code: FXC*

Part No.	Description	1	5
2168261	Electric desolder pump	$26.95	$23.95
2131021	Vacuum desolder pump	11.95	10.95
1942139	Manual desolder pump	8.95	7.95
19166	Manual desolder pump	8.95	7.95
2131215	Manual desolder pump*	8.95	8.49
2168270	1 tip for P/N 2168261	5.95	5.49
2158776	1 tip for P/N 2131021	2.95	2.49
2146610	1 tip for P/N 1942139	1.95	1.69
22091	2 tips for P/N 19166	5.95	5.39

*Antistatic tip

11-Piece Soldering Aid Tool Kit

This kit combines all the tools you need in order to begin soldering.

Kit includes:
- 30-watt UL listed soldering iron
- Soldering iron stand • Tool case
- Heat sink clamp • Solder • Pliers
- Small slotted screwdriver with stripper
- Medium slotted screwdriver • Soldering tool
- Medium philips screwdriver • Diagonal cutters

Part No.	Cross Ref. No.	1	5
2132322	GTK-059A	$19.95	$18.95

Heavy Duty Solder Stand

- Heavy hardened steel base
- Sturdy screw-on iron holder
- Weight: 1.1 lbs.

Includes: Cleaning sponge

Part No.	Size (L x W x H)	1	5	25
2157651	4.0" x 3.0" x 6.5"	$9.95	$8.95	$7.95

Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6"

Solder not included

Part No.	Size (L x W x H)	Wt. (lbs.)	1	5
169551	6.0" x 3.5" x 3.1"	2.0	$12.95	$11.95

Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft diameter: 0.6"

Solder not included

Part No.	Description	Wt. (lbs.)	1	5	25
141761	Solder stand	1.6	$12.95	$11.49	$9.95

Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability

156777

Part No.	Description	Wt. (lbs.)	1	5	25
156777	Tip cleaner and stand	0.5	$6.95	$6.39	$5.79
160004	Metal wool replacement	0.1	2.95	2.59	2.29

150-Watt Solder Pot

- On-off switch on handle
- Input voltage: 120VAC
- Maintains pot temp. of 450°C to 480°C (842°F to 896°F)
- 3-conductor power cord: 5' long
- Pot size: 30mm deep x 35mm Dia.

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
2115418	RD-7339	1.2	$49.95	$44.95

300-Watt Solder Pot

Temperature Regulated Between 420°C and 450°C

- 2 conductor power cord: 5' 9" long
- Holds up to 2.2 lbs. of solder bars recommend P/N 176057, pg 136
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty

Part No.	Description	Wt. (lbs.)	1	5
1951625	300W solder pot	5.9	$89.95	$79.95

600-Watt Solder Pot

Temperature Adjustable

- 2-wire power cord (5' 5")
- Temperature: 0°C to 500°C
- Input voltage: 110VAC @ 5.5A
- Holds up to 5.5 lbs. of solder bars pg 136
- On-off power switch and LED indicator for heat
- Self-regulating temp. • Size (tub): 3.9"L x 1.6"D
- Size (unit): 6.8"L x 5.5"W x 2.8"H

Includes: Skimmer and removable dross tray

Part No.	Description	Wt. (lbs.)	1	5
172276	600W solder pot	7.4	$249.95	$225.95

2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 57.3 lbs. of solder bar pg 136
- 3 conductor pigtail power cord: 5'L
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- One-year warranty
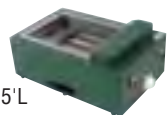
Power cord not included (recommend P/N 37997, pg 103)

Part No.	Description	Wt. (lbs.)	1	5
149876	2000W solder pot	23.1	$329.95	$299.95

★ *Solder Pots — Enter Web Code HAW*

Magnifier Third Hands

- Great for when two hands aren't enough
- 2 adjustable clamps for easy board hold
- 3.5" diopter 4 (2x magnification)

2196756: With iron stand, 2 LEDs & mini diopter 20 (6x magnification)

2196756

Part No.	Mfr. Part No.	Size (in.)	1	5
2196756	VTHH3	8.3 x 6.7 x 4.3	$21.95	$19.95
2196764	VTHH4	5.3 x 6.9 x 4.7	14.95	13.49

Deluxe Soldering Iron Stand

- Holds all the essentials in one unit
- Solder roll & soldering iron holders
- Cleaning sponge holder
- Handle for easy carrying
- Solder not included

Part No.	Mfr. Part No.	1	5
2196772	STAND60	$13.95	$12.49

22-Watt Fume Extractor

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air
- Static ground jack
- Fuse protected
- Noise: 49dB fan
- Air flow: 115 CFM
- 120VAC, 60Hz, 22 watts
- Uses 130mm filters
- Large surface area w/ adjust. angles
- Size: 7.2"W x 5.4"D x 7.9"H • One-year warranty

Includes: Detachable power cord

Part No.	Description	Wt. (lbs.)	1	5
2171786	Fume extractor	2.6	$49.95	$45.95
127183	Replace. filters (3/pk)	0.05	9.95	8.95

Fume Extractor Kit

Everything you need in order to build your very own mini pocket-sized fume extractor.

- Kit includes:
  – Voltage regulator
  – 12VDC fan
  – Slide switch
  – 2 fan guards
  – Replacement filter
  – Heat shrink – Jumper wire
  – Tin enclosure – Two 9V batteries w/ clips
- For step-by-step instructions, visit the workshop center at www.Jameco.com/Fume

Part No.	Description	1	5
2137481	13-pc. fume extractor kit	$19.95	$17.95

42-Watt Combo Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D

Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
183169	456DLX	5.2	$79.95	$74.95

Weller® 20-Watt Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable, allowing it to be set-up in multiple positions.

- Voltage: 120VAC • Sound level: 45-50dB
- Air consumption: 87-107CFM • ESD safe
- Power consumption: 20W • UL/CUL listed
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute • Size: 10"L x 6.5"W x 11"H

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
684810	WSA350	4.2	$69.95	$64.95
684828	WSA350F (carbon filter)	0.02	7.95	6.95

★ *Fume Extractors — Enter Web Code HAR*

Test/Tools

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

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Vises, Soldering Accessories & Tape Products

PANAVISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
684852	350	5.0	$99.95	$89.95

PANAVISE Electronic Work Center

- Size: 8.5"W x 7.8"H
- One-year warranty

Includes: Circuit board holder, standard base, tray base mount and wire holder

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
27060	324	5.3	$99.95	$89.95

PANAVISE Rapid Assembly Circuit Board Holder

- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently
- 10" high (from base to top of vertical shaft)

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
684844	333	6.4	$89.95	$84.95

PANAVISE Vacuum Base Vise

- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment • Base dia.: 3.4"
- Jaw size: 2"H x 1"W • Height: 7.5"H

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
251791	209	0.8	$35.95	$32.95

PANAVISE Vacuum Base Vises

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up
- Nylon jaws open 2.25"
- Size: 5.0"L x 4.0"W x 6.3"H
- One-year warranty

262116

Part No.	Mfr.	Product No.	Wt. (lbs.)	1	5
262116	BenchPro	GV-300	3.3	$39.95	$35.95
27131	PanaVise	M381	3.3	69.95	63.95

JAMECO BenchPro Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base

681002

Part No.	Description	Size	Wt. (lbs.)	1	5
26690	Third hand	2.0"	1.4	$7.95	$6.95
72865	With holder/sponge	2.0"	1.4	9.95	8.95
681002	With holder/sponge	3.5"	1.7	12.95	11.49

★ **Vises — Enter Web Code TAD**

JAMECO ValuePro Solder Bars, Rolls and Pocket Packs

Due to extraordinary price fluctuations, solder prices are subject to change.

★ Web Code: ABD

Part No.	Manufacturer	Tin	Lead	Silver	Copper	Inches/mm	Weight	Type†	1	10
2210132	Kester	60	40	—	—	0.025/0.64	1 lbs.	1	$37.95	$34.95
73576	Kester	60	40	—	—	0.031/0.787	0.5 oz.	2	3.29	2.95
32117	Kester	60	40	—	—	0.031/0.787	1.08 lbs.	1	35.95	33.95
2184616	Kester	60	40	—	—	0.062/1.57	1.03 lbs.	1	37.95	35.95
141786	ValuePro	60	40	—	—	0.031/0.787	1.13 lbs.	1	32.95	29.95
176057	ValuePro	60	40	—	—	12.5x0.75x0.44	1.1 lbs.	3	29.95	27.95
2188220	Kester	60	40	—	—	0.05/1.27	1.0 lb.	1	33.95	29.95
94570	Kester	60	40	—	—	0.05/1.27	1.3 oz.	2	4.95	4.49
2210124	Kester	60	40	—	—	0.040/1.02	1 lbs.	1	36.95	33.95
2188959	ValuePro	60	40	—	—	0.125/3.0	5.0 lbs.	1	59.95	53.95
73605	Kester	62	36	2.0	—	0.02/0.508	0.35 oz.	2	3.95	3.59
2177694	ValuePro	63	37	—	—	0.015/0.381	1.0 lb.	1	39.95	34.95
2210116	Kester	63	37	—	—	0.025/0.64	1 lbs.	1	39.95	36.95
2210087	Kester	63	37	—	—	0.031/0.79	1 lbs.	1	39.95	36.95
2210095	Kester	63	37	—	—	0.031/0.79	1 lbs.	1	44.95	39.95
151474	Kester*	63	37	—	—	0.031/0.787	1.0 lb.	1	39.95	34.95
2188246	Kester	63	37	—	—	0.031/0.787	1.0 lb.	1	34.95	31.95
2158178	Kester	63	37	—	—	0.05/1.27	1.0 lb.	1	29.95	26.95
668262	ValuePro	96.3	—	3.2	0.5	0.04/1.02	7.2 oz.	1	39.95	36.95
668297	ValuePro	96.3	—	3.2	0.5	0.04/1.02	1.1 lbs.	1	84.95	79.95
2113172	Kester	96.5	—	3.0	—	0.031/0.787	0.43 oz.	2	5.95	5.39
2188254	Kester	96.5	—	3.0	—	0.031/0.787	1.0 lb.	1	109.95	99.95
2210108	Kester	96.5	—	3.0	0.5	0.025/0.64	1.0 lb.	1	94.95	89.95
170457	ValuePro	99.3	—	—	0.7	0.031/0.787	0.8 oz.	2	3.25	2.95
668078	ValuePro	99.3	—	—	0.7	0.04/1.02	9.15 oz.	1	26.95	24.95
209075	ValuePro	99.3	—	—	0.7	0.031/0.787	1.0 lb.	1	36.95	33.95
2188094	ValuePro	99.3	—	—	0.7	12.75x0.875x0.75	1.64 lbs.	3	49.95	44.95

NEW MARKED IN PINK

141786

2188220

668297

2113172

170457

*Organic core
† 1. Roll 2. Packet 3. 13" Bar

TECHSPRAY / Chemtronics 5' & 100' Desolder Braids

★ Web Code: DAG

Part No.	Manufacturer	Product No.	Description	Width (in.)	1	10
2139137	Techspray	1820-5F	No-Clean, Military/NASA certified, 5'	.035	$4.49	$3.95
2188748	Philips	ZW050-5	Zip Wick Military/NASA certified, 5'	.050	3.95	3.49
124126	Techspray	1815-5F	No-Clean, Military/NASA certified, 5'	.055	4.95	4.49
124118	Techspray	1816-5F	No-Clean, Military/NASA certified, 5'	.075	4.95	4.49
263708	Techspray	1817-5F	No-Clean, Military/NASA certified, 5'	.098	5.49	4.95
2192430	Philips	ZW100-5	Zip Wick Military/NASA certified, 5'	.100	3.95	3.49
263695	Techspray	1803-5F	Pro Wick, pure rosin, 5'	.075	3.95	3.75
263599	Techspray	1804-5F	Pro Wick, pure rosin, 5'	.098	4.49	3.95
263581	Techspray	1811-5F	Pro Wick, pure rosin w/ bobbin, 5'	.098	3.59	3.25
41082	ValuePro	GISW20	Desolder braid, solder wick, 5'	.079	1.95	1.75
41100	ValuePro	GISW25	Desolder braid, solder wick, 5'	.098	2.19	1.99
153462	ValuePro	GSR104D	Desolder braid, solder wick, 5'	.120	2.25	1.95
2113130	Chemtronics	60-3-5	Soder-Wick® no clean size 3, 5'	0.08	4.95	4.49
2113148	Chemtronics	60-4-5	Soder-Wick® no clean size 4, 5'	0.11	5.95	5.39
2192843	Philips	ZW100-100*	Desolder-braid, zip wick 100'	0.1	49.95	44.95

*100 ft.

263708

263695

2113130

3M Tape Products

★ Web Code: TPS

Part No.	Description	Color	Width	Length	Thickness	1	10	50
285587	Vinyl electrical tape, Tartan 1710, UL	Black	.75"	20 yards	.007"	$1.59	$1.45	$1.25
1643551	Embossed copper foil, 1245 tape	Copper	.50"	18 yards	.004"	22.95	21.49	19.95

285587

PANAVISE PV Jr. Vise

- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8" • Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts

Part No.	Mfr. Part No.	1	5
134439	PVJR 201	$27.95	$25.95

JAMECO BenchPro 360° Clamp Vise

- Ball cup allows vise to adjust to any angle
- Rubber jaws open 2"
- Size: 10.0"L x 2.5"W

Includes: interchangeable pipe vise attachment

Part No.	Cross Ref.	Wt. (lbs.)	1	5
127167	OR-307	2.1	$19.95	$17.95

AC LUXeon Helping Hand with LED Magnifier Lamp

This is perfectly suited for soldering comfortably while keeping one hand free.

★ Web Code: YAU

- Large lens with 2x magnification
- Small embedded lens to 4x magnification of extremely small parts
- Ring light with 16 LEDs and gooseneck for optimum lighting • Easily adjustable hinge
- Adjust. third hand w/ 2 alligator clips
- Additional flexible 9.8" (250mm) gripping arm with alligator clip
- Solder wire reel holder
- Soldering iron holder • Cast-iron base
- Stand size: 7.0"W x 7.0"H

Includes: Power adapter and sponge

Part No.	Description	Wt. (lbs.)	1	5
2168587	Helping hand	2.9	$74.95	$69.95

Test/Tools

Workshop Chemicals & Heat Sink Compounds

NEW MARKED IN PINK

Part No.	Manufacturer	Description	Vol. (oz.)	1	5
2120794	MG Chemicals	Adhesive epoxy, high temperature encapsulating and potting compound*	12	$54.95	$49.95
615769	GC Electronics	Adhesive, sealant, silicon, one part, non corrosive, clear	3	5.95	5.49
2201754	MG Chemicals	Silver conductive epoxy adhesive, strong water & chemical resistance, two 7g syringes*	0.1§	64.95	59.95
645845	3M	Super adhesive, household glue #6004*	1	3.95	3.75
2094207	Caig/DeoxIT	Air duster, non-flammable, moisture free, non-ozone depleting, no VOC*	10	11.95	10.95
2112524	ChipQuik	Cleaner & tinner, soldering tip for pre-tinning & tinning*	8†	12.95	11.95
2094231	Caig/DeoxIT	Cleaner wash, contact evaporates quickly, safe on plastics*	10	10.95	9.95
2094223	Caig/DeoxIT	Cleaner, contact quick dry, chemically improves metal electronic connections*	0.5	11.95	10.95
118033	Techspray	Cleaner, contact, ECONOLINE, CFC free, aerosol can*	13.5	19.95	17.95
195004	Caig/DeoxIT	Cleaner, contact dioxidizer & preservative, improves electronic connections*	5	19.95	17.95
2094215	Caig/DeoxIT	Cleaner & conditioner, soldering tip	0.5	10.95	9.95
616331	GC Electronics	Conductive paint, silver print II*	0.5#	59.95	54.95
2110529	Caig/DeoxIT	Circuit writer pen, silver based, for drawing & repairing traces, works on rubb.,epoxy,glass,plastic*	5g†	24.95	22.95
2188297	MG Chemicals	Conductive nickel coating aerosol, reduces EMI/RFI, adheres to ABS & polycarbonates*	12	44.95	40.95
2168464	Bare Conductive	Conductive pen, non-toxic, water-based, water-soluble	0.34	14.95	13.49
2208201	Bare Conductive	Conductive paint jar, non-toxic, water-based, water-soluble	1.7	39.95	36.95
2120559	MG Chemicals	Conformal coating, acrylic lacquer, protects from ESD*	2	16.95	15.49
525851	Chemtronics	Cotton swabs, double headed, 6" handle, 100-pack	—	6.95	6.25
616411	GC Electronics	Developer, positive type, concentrate, dilute 9:1*	6	11.95	10.95
2157941	3M	Electrical coating FD, fast drying sealant and bonding agent	15	34.95	29.95
616438	GC Electronics	Etching solution, PC board, ferric chloride solution*	32	24.95	22.95
2188262	MG Chemicals	Ferric chloride copper etchant solution, etches PCBs 175-200 µinch/minute*	33	19.95	17.95
616446	GC Electronics	Etching solution, PC board, ferric chloride solution*	128	49.95	44.95
139934	Techspray	Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free*	8	23.95	21.95
615355	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	16†	39.95	36.95
236823	ValuePro	Heat sink compound, silicon based grease	0.35†	4.95	4.49
167249	Aavid Thermalloy	Heat sink compound, silicon based grease*	2†	8.95	7.95
169252	Techspray	Heat sink compound, silicon free	4†	32.95	29.95
259151	NTE	Heat sink compound, white gel, thermal grease (5 pack)	1g†	2.49	2.25
615312	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	0.23†	3.49	3.25
615321	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	1†	7.95	6.95
615304	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	16†	29.95	26.95
263572	Techspray	Isopropyl alcohol, plastic bottle*	16	14.95	13.49
2188289	MG Chemicals	Liquid isopropyle alcohol, general purpose cleaner*	33.8	14.95	13.49
2201762	MG Chemicals	Liquid rosin flux, fully activated, instant wetting, non-corrosive, non-conductive*	4.2	13.95	12.49
2201771	MG Chemicals	Liquid rosin flux pen, fully activated, RA type, non-corrosive, non-conductive*	0.34	10.95	9.95
2188300	MG Chemicals	No clean flux paste with syringe, 10cc/10ML	8g†	12.95	11.95
615806	GC Electronics	Solder flux remover & cleaner II, non ODC*	16	13.95	12.49
118041	Techspray	Solder flux remover, ECONOLINE, CFC free, aerosol can*	13.5	19.95	17.95
1586015	Chipquik	Solder flux, tack for rework, no clean, 10cc w/ syringe	0.34	19.95	17.95
481764	Techspray	Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue*	0.38	11.95	10.95
615224	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	2	10.95	9.95
615232	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	16	24.95	22.95
2094258	Caig/DeoxIT	Solder flux, rosin paste for electronic applications including PCBs*	2	10.95	9.95
2113092	Chemtronics	Solder flux, rosin dispensing pen, for electronic applications including PCBs*	0.32	11.95	10.95
2098208	Chipquik	Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe*	0.34	26.95	24.95
2098224	Chipquik	Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe, water washable*	0.34	24.95	22.95
2097441	Chipquik	Solder paste, 96.5% SN, 3% AG, 0.5% CU, no clean 10cc w/ syringe*	0.34	29.95	26.95

*Shipped via ground to continental U.S. only   #Troy ounces   †Measured by weight   §Weight for each

645845   2094207   2112524   2094231

118033   195004   2094215   616331

2110529   2208201   139934   167249

169252   615321   263572   1586015

481764   615224   2094258   2113092   2098208/2098224

★Workshop Chemicals — Enter Web Code YAQ

★Heat Sink Compounds — Enter Web Code YBA

JAMECO BenchPro Cleaning Brushes

153322: Metal handle

Part No.	Description	Length	1	10	100
153322	Soft bristles	6"	$.79	$.69	$.59

JAMECO BenchPro Plastic Pump Bottle

- 6 oz. bottle • ESD compliant
- Plastic bottle with dispenser cover
- Color: light blue

Part No.	Cross Ref. No.	1	5	25
158131	450	$14.95	$13.49	$11.95

JAMECO BenchPro Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts

Part No.	Cross Ref.	Size	1	10	100
159126	HT156	2.7"L x 0.7"W	$2.95	$2.59	$2.29

★Cleaning Tools — Enter Web Code CLE

JAMECO BenchPro ProtoDough Reusable Prototyping Design Plastics

- Create custom molds of any design quickly and easily
- High elongation break points
- Can be drilled, sawed and machined
- Safe for hand molding
- Non-toxic, lightweight and paintable
- 3.5mm pellets
- Melting point temperature: 136°F-140°F

Part No.	Cross Ref. No.	Description	1	5
2208286	Proto Dough-250G	250 gram bag	$14.95	$13.49
2208294	Proto Dough-500G	500 gram bag	19.95	17.95
2208307	Proto Dough-1000G	1000 gram bag	34.95	31.95

★For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
NAME BRANDS   HOUSE BRANDS   SPECIAL BUY

Test/Tools

Solderless Breadboards

JAMECO ValuePro · **PARALLAX** · **BPS** BusBoard Prototype Systems · **YC**

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use with Jameco's AC/DC breadboard power supply, P/N 77682 (below).

★ *Web Code: HAC*

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- Ideal for high frequency and low noise circuits
- Pins are identified by numbered rows and columns   • 0.1" hole spacing
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, below)
- One-year warranty

20670   20758   20812

Part No.	Manufacturer	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size (L" x W")	Baseplate Size (L" x W")	Weight (lbs.)	Pricing 1	10	50	100
94457	ValuePro	JE19*†	0	2	100	0	6.5 x 0.4	—	0.04	$2.95	$2.59	$2.29	$1.95
2155452	ValuePro	WBP-317	1	0	170	0	1.9 x 1.3	—	0.03	2.95	2.59	2.29	1.95
2109801	Parallax	700-00012	1	0	170	0	1.8 x 1.4	—	0.03	5.95	5.39	4.79	4.39
2155461	ValuePro	WBP-323	1	2	270	0	2.6 x 1.6	—	0.05	3.95	3.59	3.29	2.95
2125018	BusBoard	BB300	1	0	300	0	3.3 x 1.4	—	0.04	5.95	5.39	4.79	4.39
2157693	ValuePro	BB-801	1	2	400	0	3.3 x 2.1	—	0.11	4.95	4.49	3.95	3.29
20601	ValuePro	JE21#	1	2	400	0	3.3 x 2.1	—	0.13	5.95	5.39	4.79	4.39
20670	Wisher	JE22#	1	0	630	0	6.5 x 1.4	—	0.20	8.95	7.95	6.95	5.95
194299	ValuePro	JE37	1	2	640	0	6.9 x 2.4	—	0.25	9.95	8.95	7.95	6.95
2157706	ValuePro	BB-102†	1	2	830	0	6.5 x 2.2	—	0.21	6.95	6.25	5.59	4.95
20723	ValuePro	JE23#	1	2	830	0	6.5 x 2.2	—	0.30	9.95	8.95	7.95	6.95
194272	Wisher	JE34#	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	19.95	17.95	15.95	13.49
2157714	ValuePro	BB-2T1D	2	1	1,360	2	6.5 x 3.1	8.2 x 4.0	0.68	13.95	12.49	10.95	9.95
20758	ValuePro	JE24#	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	15.95	14.49	12.95	11.49
20774	ValuePro	JE25#	2	4	1,660	3	6.5 x 4.4	8.5 x 5.2	0.70	22.95	20.95	18.95	16.95
136901	Wisher	WBU504	2	3	1,855	4	5.3 x 5.6	7.5 x 6.3	0.90	23.95	21.49	19.49	17.49
2157722	ValuePro	BB-3T5D†	3	5	2,390	4	6.9 x 5.8	8.7 x 7.2	1.28	24.95	22.49	19.95	17.95
20791	ValuePro	JE26#	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	29.95	26.95	23.95	21.95
2157731	ValuePro	BB-4T7D†	4	7	3,220	4	7.3 x 7.5	9.3 x 8.1	1.60	29.95	26.95	23.95	21.95
20812	ValuePro	JE27#	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	39.95	35.95	32.95	29.95

* Pack of 2   **†** Interconnect with other **†** listed above   **#** Interconnect with other **#** listed above

Powered Project Breadboards

JAMECO ValuePro · **SUN**

★ *Web Code: XAT*

Being confined to a lab bench in order to test your circuit can be a hassle. These breadboards have a built-in power supply, so all you have to do is plug them into the wall outlet and you're ready to go! Adjustable outputs make it easy to provide the right amount of power and internal protection makes sure that your project is safe.

- Solderless breadboard with 2,420 tie points   • Power switch with light
- Outputs are short-circuit protected   • **Includes:** 3-prong power cord

1942163:
- Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
- Triple output power supply: fixed 5VDC @ 1.5A; 0 to ±16VDC @ 0.5A (adjustable)
- Breadboard size: 6.9"L x 5.8"W
- Grounded case   • Overload protection   • Fuse protection   • Lighted power switch

136259:
- Fixed power: +5V @ 1A; variable power: 0 to ±15VDC @ 500mA
- Edge plate for non-DIP size components   • One-year warranty
- Input power: 120/220VAC @ 50-60Hz (switchable)   • Breadboard size: 7.4"L x 6.8"W
- Replacement fuse: P/N 103908, pg 41   • Back panel has ground terminal

1942163

136259

Part No.	Description	Overall Size	Wt. (lbs.)	1	5
1942163	5VDC @ 1.5A & ±16VDC @ 0.5A	9.8"L x 7.8"W x 3.0"H	5.8	$139.95	$124.95
136259	5VDC @ 1A & ±15VDC @ 0.5A	9.9"L x 7.8"W x 2.8"H	6.8	199.95	179.95

AC/DC Power Supply

JAMECO ValuePro

Output Specifications:
+5VDC @ 1A; -5V @ 300mA fixed;
0 to +15VDC @ 500mA variable;
0 to -15VDC @ 300mA variable;
12-6-0-6-12 tapped VAC,
300mA fixed

International 120/220VAC Switchable

Ideal for Breadboards above

With built-in short circuit protection.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in and start to use
- Compact and lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 124
- Size: 7.4"W x 5.5"D x 2.6"H
- Color: beige   • One-year warranty

Part No.	Description	Wt. (lbs.)	1	5
77682	Power supply	5.5	$179.95	$162.95

Wire Jumper Kits

JAMECO ValuePro

19290

- 0.1" to 5.0" lengths (14 sizes)
- Clear plastic durable case
- Pre-stripped/preformed
- 22 AWG solid wire jumpers in 10 colors

★ *Web Code: LAS*

NEW MARKED IN PINK

✳ *Order in multiples of 10*

Part No.	Description	1	10	50	100
2127718	70-piece kit, 5 of each length	$6.95	$6.25	$5.59	$4.95
2096018	140-piece kit, 10 of each length	9.95	8.95	7.95	6.95
19290	350-piece kit, 25 of each length	17.95	15.95	14.49	12.95
20080	350 pieces, refill for P/N 19290	11.95	10.95	9.95	8.95
2213211	0.5" red wire jumper	✳	.12	.10	.08
2213202	0.5" yellow wire jumper	✳	.12	.10	.08
2213190	0.75" black wire jumper	✳	.15	.13	.11
2213173	1.0" black wire jumper	✳	.17	.15	.12
2213165	2.0" blue wire jumper	✳	.19	.17	.15

Reinforced Jumper Wires

JAMECO ValuePro

126342

These jumper wires are exactly what you need to build the circuits you have designed on breadboards. The various lengths of the wire can help make your circuit concise and less cluttered for larger designs. You can also separate various functions based on color to make the circuit easier to read and follow along with the schematic.

- Reinforced pin ends for durability

★ *Web Code: LAS*

Part No.	AWG	Length (in.)	Number of Wires per Color	1	10	100
126360	24	1.97	2 ea. of yellow/white/red/black/blue ..	$6.95	$6.25	$5.59
126342	24	3.94	2 ea. of yellow/white/red/black/blue ...	6.95	6.25	5.59
126325	24	7.87	2 ea. of yellow/white/red/black/blue ...	6.95	6.25	5.59
421315	24	5.90	4 ea. of yellow/white/red/black/blue ...	11.95	10.95	9.95
2150467	26	1.6, 3.2, 4.8	28 ea. of green/red/black/white/orange*	12.95	11.49	9.95
2117106	22	7.00	(10) blue	8.95	7.95	6.95

* Contains 100 male-male cables, 40 female-female cables

Electro Design

Deluxe Electronic Kits
JAMECO ValuePro

2129115 Top **2129115 Bottom**
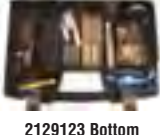
2129123 Top **2129123 Bottom**

2129115: 219 pieces; fuses, battery holders, batteries, potentiometers, loudspeaker, capacitors, resistors, photoresistors, transistors, switches, LEDs, clips, jumper and hookup wires, breadboard, AC adapter, and deluxe carrying case P/N 2129131

2129123: 109 pieces; voltage regulators, relays, diodes, switches, potentiometers, logic chips, DIP sockets, inverters, counters, timers, headers, 3-digit display, numeric keypad, DC power jacks, binding posts, solder tube, heat shrink tubing, printed circuit boards, clips, IC inserter, IC extractor, anti-static wristband, helping-hands, project box, deluxe carrying case P/N 2129131

2129131: Clear flip-top lid with 26 built-in compartments, case with 8 interchargeable compartments, snap-lock closure
- Color: black with clear lid
- Size: 15"L x 11.25"W x 3.75"H

★ **Web Code: CKS**

Part No.	Description	1	5
2129115	219 pcs. deluxe kit	$84.95	$74.95
2129123	109 pcs. deluxe kit	94.95	84.95
2129131	Case with 34 compartments	14.95	13.49

Resistance & Capacitance Decade Substitution Boxes
EXTECH INSTRUMENTS

Wide-range decade substitution boxes for product design or calibration checks.
- Light durable construction • Case may be grounded separately • Weight: 0.7 lbs.
- Three binding posts permit isolated substitutions • Size: 4.7"W x 1.4"D x 5.7"H

211668: 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance • 0.3W resistor
- Values can be changed in 1Ω increments

211676:
- 5% capacitance substitution from 100pF to 11.111µF
- 5 decade ranges of capacitance • 50VDC rating

211668 **211676**

Part No.	Description	1	5
211668	Resistance box	$99.99	$94.95
211676	Capacitance box	129.99	122.95

Digital Design Lab
JAMECO ValuePro

- 1580 tie points
- Fixed power supply: +5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- Digital voltmeter • One-year warranty

Solderless Breadboard
- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies
- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to ±15V @ 0.3A

Function Generator (6 ranges) • Sine/triangle wave output: 0-5Vp-p variable
- Frequency ranges: 0.1Hz–2Hz, 1Hz–20Hz, 10Hz–200Hz, 100Hz-2kHz, 1kHz–20kHz, 10kHz –200kHz • Square wave output: 0-15Vp-p

Universal Counter • 1Hz-100MHz, with 8-digital 7-segment LED display

Includes: Power cord and manual

★ **Web Code: LAJ**

Our most popular digital lab!

International 115/220VAC Switchable

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
75839	Digital lab	10.6 x 13.3 x 5.0	8.1	$469.95	$449.95
1952599	Replacement breadboard	4.5 x 6.75 x 0.37	0.5	29.95	26.95

Bug Trays

- Tray size: 4.8"L x 3.6"W x 0.5"H
2120372: 5 compartments (4.6"L x 0.58"W x 0.3"H ea.)

2120372

Part No.	Description	1	10	100
2120372	Divided bug tray	$.79	$.49	$.39
2120381	Open bug tray	.55	.45	.35
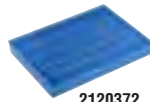
Component Cabinets
JAMECO ValuePro

319611 **319601 Components not included**

319600

Drawer (319601) Divider (319611)

319600:
- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 14.7"W x 6.0"D x 7.4"H
Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels
319601 (drawer): 5.5"L x 2.7"W x 1.5"H
319611 (divider): 2.5"W x 1.2"H

Included with every kit on page 30!

2213675:
- Cabinet size: 17.6"L x 7.0"D x 9.8"H
- Counter-top design (ABS white)
Includes:
14 clear plastic drawers in 3 sizes:
(10) 6.4"L x 3.4"W x 1.5"H,
(3) 8.8"L x 6.4"W x 1.5"H,
(1) 8.8"L x 6.4"W x 3.3"H
and 20 adhesive I.D. labels

NEW MARKED IN PINK

2213675

✳ Order in multiples of 10

Part No.	Description	1	10	50
319600	20-drawer cabinet	$19.95	$17.95	$15.95
2213675	14-drawer cabinet	24.95	22.95	19.95
319601	Drawer for cabinet	.59	.55	.49
319611	Drawer divider for cabinet	✳	.15	.12

Digital/Analog Design Labs
JAMECO ValuePro

Solderless Breadboard
- 2712 connections; fits AWG #22-30 (0.3-0.8mm)

DC Power Supplies
- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to ±15V @ 500mA (P/N 136267) and 0 to ±15V @ 1A (P/N 1919211)
- Input power: 110/220VAC @ 50-60Hz (switchable)

Function Generator (6 Ranges) • Triangle wave output: 0–5Vp-p variable
- Frequency ranges: 0.1Hz–2Hz, 1Hz–20Hz, 10Hz–200Hz, 100Hz–2kHz, 1kHz–20kHz, 10kHz–200kHz • Sine wave output: 0–5Vp-p variable

Other Features • 2.5" dia., 8Ω, 25W speaker • 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, Ā, B, B̄) • 2.5" dia., 8Ω, 25W speaker
- Two 7-segment LED displays (digit height: 0.3") • 2 banana sockets, 2 BNC jacks
136267: • 8 data switches • 8-bit red LEDs • 100MHz universal counter
- Includes power cord, manual and UC-03 60-pin header
1919211: • 16 data switches • 16-bit red LEDs
- Includes power cord, manual and jumper wires

136267

★ **Web Code: LAJ**

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
136267	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	$489.95	$459.95
1919211	Digital/analog lab*	13.0 x 10.5 x 3.5	9.1	549.95	521.95

* Manufacturer: Sun

Breadboard Power Supply
DFROBOT

This power supply is a very simple pre-assembled board that takes a 6-12V input and outputs a selectable 5V or 3.3V regulated voltage. All headers are 0.1" pitch for simple insertion into a breadboard. It can be powered from a 2.1mm DC power jack or from a USB port. No assembly required.
- Output: 3.3V/5V @ 500mA max.
- Input: 6-12V (power jack) or 5V (USB)
- 0.1" pin spacing perfect for breadboards
- On/Off switch • Power status LED

Part No.	Size (L" x W")	1	5
2157853	1.7 x 1.2	$6.95	$5.95

Plastic Fliptop Case for SMDs

- 128 compartments
- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 38

Includes: Labels for each bin

JAMECO ValuePro

NEW MARKED IN PINK

Part No.	Size (L" x W" x H")	1	5
2217035	11.0 x 8.5 x 2.2	$49.95	$44.95

Plastic Fliptop Boxes
JAMECO ValuePro

- Clear plastic box with lid
2156164: Bucket style w/ handle
100256/148902: includes removable dividers
100256: 18 compartments
148902: 12 compartments

100256

Part No.	Size (L" x W" x H")	1	10	25
2207179	5.3 x 3.4 x 1.0*	$2.95	$2.49	$1.95
2156164	5.2 x 4.5 x 5.0†	4.95	4.69	4.49
2207216	6.1 x 3.5 x 1.2*	2.95	2.49	1.95
100256	8.4 x 4.5 x 1.4	2.95	2.49	1.95
2156172	8.7 x 6.5 x 2.3†	5.95	5.49	4.95
148902	10.2 x 4.7 x 1.6	4.95	4.49	3.95
2156181	11.0 x 6.7 x 2.3†	6.95	5.95	4.95

*Manufacturer: Velleman † No dividers

★ **Enclosures and Boxes — Enter Web Code UAL**

Electro Design
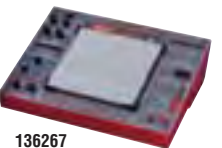
JAMECO ValuePro

Metal and Plastic Enclosures

★Web Code: UAL

The prototype builder boards on pg 141 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware (P/N 106551, pg 141) and adhesive standoff (P/N 2191592, see Web).

Board description: Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 40 for Knobs and page 78 for Hardware

18922 18914 18893 11886 208911

105100* 105129* 105153* 105137* 206579*
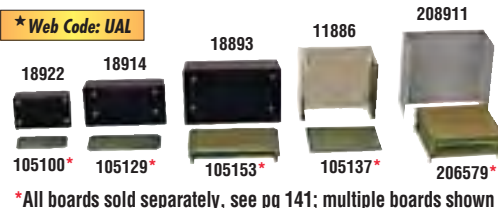
*All boards sold separately, see pg 141; multiple boards shown

ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

18914

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	$3.49	$3.19	$2.89	$2.49
18914	H2853	4.9" x 2.5" x 1.5"	3.95	3.59	3.19	2.75
18893	H2851	6.0" x 3.5" x 1.9"	4.95	4.49	3.95	3.49
18906	H2852	7.5" x 4.3" x 2.3"	7.49	6.79	5.95	5.49

ABS Enclosures with Clear Top

Includes screws for mounting boards, rubber gasket for a tight seal on your equipment and drilled holes for mounting.

141841

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
141832	203C1	4.9" x 3.4" x 2.4"	$9.95	$8.95	$7.95	$7.29
141841	203D1	6.5" x 3.4" x 2.2"	9.95	8.95	8.49	7.95
141859	203F1	7.3" x 5.7" x 3.0"	14.95	13.95	12.95	11.95

ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

18869

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	$8.95	$7.95	$7.19	$6.49
2210685	WCA-H2505	7.9" x 6.3" x 2.5"	7.95	6.95	5.95	5.29
18877	H2507	10.0" x 7.5" x 3.1"	9.95	8.95	7.95	7.29

ABS Plastic Lip Top Enclosure

PCB standoffs molded into the case with a lip top for a precision fit. Painted black with a satin texture finish and protection against dust and splashing water. Assembly screws and lid included.

Part No.	Mfr. Part No.	Size (L x W x H)	Color		1	10	50
2138206	1551GBK	2.0" x 1.4" x 0.8"	Black		$2.49	$2.25	$1.95

SERPAC
Specialty Enclosures

Please Note: Images used are representative. Color and shapes may vary by model.

A Series   C Series   S Series

2202108

A Series — with PCB Boss Mounts
• 4-pc design • Interchangeable end panel • 4-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
373456	A-42-BK	Black	7.12 x 5.00 x 1.62	$9.95	$8.95	$7.95

C Series — with Pinch-Fit for PCBs
• Simple 2-piece design • 2-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	25
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	$2.95	$2.69	$2.39

S Series — Two-piece Standard Enclosures
• 2-piece design • 2-insert areas for customized I-plates • With screws

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	25
675454	110-I-BK †	Black	None	3.61 x 2.27 x 1.01	$3.49	$3.29	$2.95
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	3.95	3.49	2.95
2202108	341BLK*	Black	None	4.38 x 3.25 x 1.51	4.95	4.49	3.95
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	5.95	5.49	4.95
675500	151-BK	Black	None	5.63 x 3.25 x 1.51	4.95	4.49	3.95
675526	171-BK	Black	None	6.88 x 4.88 x 1.51	6.95	6.25	5.59
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	10.95	9.95	8.95
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	12.95	11.95	10.95

†Insert on top is recessed 0.015" on all models designated with an "I"   *Drilled, ValuePro

Metal Enclosures

208901
208911
208929

• Mounting screws and rubber feet included
• Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
208901	B2741A	7.5" x 9.8" x 3.2"	$6.95	$6.49	$5.95	$5.49
208911	B2743A	5.9" x 5.3" x 3.0"	8.95	8.49	7.95	6.95
209350	B2746A	6.3" x 7.8" x 2.5"	10.95	9.95	8.95	7.95
208929	B2744A	7.3" x 6.3" x 2.8"	11.95	10.95	9.95	8.95
209358	B2747A	7.5" x 9.8" x 3.2"	15.95	14.49	12.95	11.95

Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

11973

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	$7.95	$7.49	$6.49	$5.95
11965	B5004	4.7" x 2.6" x 1.4"	10.95	10.49	9.49	8.95
2191859	BOX3-1455N	6.3" x 4.6" x 2.1"	22.95	20.95	18.95	17.95
2191867	BOX3-1455N-BK	6.3" x 4.6" x 2.1"	24.95	22.95	20.95	18.95
11973	B5006	7.5" x 4.3" x 2.4"	19.95	19.49	17.95	16.95

Aluminum Enclosures

The enclosure comes in two pieces that slide together.

11886

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
11870	H2300	4.0" x 2.0" x 2.8"	$7.95	$6.95	$5.95	$4.95
11886	H2320	5.0" x 4.0" x 3.0"	8.95	7.95	6.95	5.95
11894	H2335	7.0" x 6.2" x 4.6"	10.95	9.95	8.95	7.95

Rugged Diecast Aluminum Alloy Enclosures

Protects from dust and splashing water, while also providing EMI/RFI shielding. Designed to meet IP54 rating. Unpainted with a vibra finish. Assembly screws included.

Part No.	Mfr. Part No.	Size (L x W x H)	Cover	1	10	50
2138169	1550A	3.5" x 1.4" x 1.2"	Lid top	$6.95	$6.25	$5.59
2138290	1590B	4.4" x 2.3" x 1.1"	Lip top	7.95	7.25	6.49
2138302	1590BB	4.7" x 3.7" x 1.2"	Lip top	10.95	9.49	8.49

Raspberry Pi Enclosures

2158645: 5.12"L x 3.35"W x 2.52"H
2184296: 2.7"L x 4.0"W x 1.0"H
2184958/2184940: 3.94"L x 2.5"W x 1.18"H

2158645   2184296   2184958

Part No.	Description ★Web Code: RPI		1	5
2158645	Pi Sandwich rectangular enclosure, open on all 4 sides for direct access		$5.95	$5.49
2184296	Fits model A, B; durable secure press-fit w/ GPIO ribbon cable slot		12.95	11.49
2184958	Pi type B, snap-fit injection molded ABS plastic, 2-pieces, gloss black		13.95	12.95
2184940	Pi type B, snap-fit injection molded ABS plastic, 2-pieces, clear		13.95	12.95

BeagleBone & BeagleBone Black Enclosure

• Cut-outs for the DC power, Ethernet, microSD card, HDMI port, USB host and USB debug ports
• 6 laser cut acrylic pieces, 4 plastic standoffs, 8 hex-nuts and 8-1/2" 4-40 screws • BeagleBoard on pg 155

Part No.	Mfr. Part No.	Inner Dimensions	Outer Dimensions	1	5
2184270	699	1.18" x 2.2" x 3.78"	2.75" x 1.73" x 3.78"	$19.95	$18.95

Board-ganizer® Multi-Development Board Enclosure Kit

• 6-piece fold and flatten enclosure design
• For use with development boards and micro-computers
• Specially designed side openings for plug-in connections

Part No.	Mfr. Part No.	Closed Dimensions	1	5
2204357	BG-32618	5.0" x 5.0" x 3.5"	$15.95	$14.95

Electro Design

General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

★ Web Code: PBH

See PCB enclosures on pg 140, and mounting hardware (recommend P/N 106551) below

21435 **206579** **21478** **52943**

106551

Board Outline
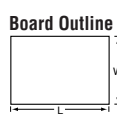
Circuit Patterns
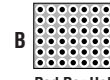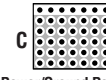
A Holes Only
B Pad Per Hole
C Power/Ground Perimeter Bus with Pad Per Hole
D 3 Hole Solder Pad and Bus

Part No.	Product No.	Size (W" x L")	Fits Enclosure(s) (see page 140)	Circuit Pattern	Hole Pads	# Holes x Dia.†	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	1	10	50	100
105102	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2.0 x .140"	.02	$6.95	$5.95	$4.95	$3.95
105100	2855PCB	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2.0 x .115"	.02	5.95	5.49	4.95	4.49
105129	2853PCB	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4.0 x .140"	.03	8.49	7.59	6.75	5.95
105111	2300PCB	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2.0 x .140"	.03	7.95	7.19	6.49	5.95
263207	PCB-463	2.40 x 4.10	—	B	Plated through	640 x .031"	None	None	4.0 x .120"	.05	8.95	7.95	6.95	5.95
28178	PCB1	2.42 x 4.10	—	C	Plated through	674 x .040"	None	None	4.0 x .120"	.04	7.95	7.25	6.59	5.95
263215	PCB-858	2.50 x 4.25	18893	D	Plated through	640 x .042"	None	D-sub 25/USB/RJ45	4.0 x .120"	.05	8.95	7.95	6.95	5.95
105153	2851PCB	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4.0 x .140"	.07	9.95	8.95	7.95	6.95
263223	PCB-69	3.30 x 3.70	—	B	Single-sided	900 x .042"	None	None	4.0 x .120"	.05	8.95	7.95	6.95	5.95
105137	2320PCB	3.30 x 4.50	11886	C	Single-sided	1266 x .035"	4	None	4.0 x .140"	.06	8.95	7.95	6.95	5.95
105162	2852PCB	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4.0 x .140"	.10	13.95	12.49	10.95	9.95
2131186	ECS3-H*	3.90 x 6.30	—	D	Single-sided	784 x .041"	2	DIN41617/41612	4.0 x .120"	.12	7.95	7.25	6.59	5.95
21531	JE417**	4.20 x 6.50	—	C	Plated through	2126 x .042"	2	D-sub 9/15/25/37	8.0 x .120"	.12	11.95	10.95	9.95	8.95
206587	2746APCB	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4.0 x .140"	.07	9.95	8.95	7.95	6.95
21435	JE401(8001)	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	16.95	15.49	13.95	11.95
206579	2743APCB	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4.0 x .140"	.07	7.95	6.95	5.95	5.29
105180	2505PCB	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8.0 x .120"	.13	13.95	12.49	10.95	9.95
21478	JE407(8006)	5.00 x 13.25	—	B	Plated through	6063 x .038"	None	None	8.0 x .120"	.28	39.95	35.95	32.95	28.95
206594	2747APCB	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4.0 x .140"	1.0	11.95	10.95	9.95	8.95
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8.0 x .140"	.21	16.95	15.49	13.95	11.95
2169547	PCB-7038-SINGLE	8.30 x 11.9	—	B	Single-sided	8819 x .042"	10	5	4.0 x .115"	.40	24.95	22.95	21.95	20.95
263232	PCB-7038	8.30 x 11.9	—	B	Plated through	8819 x .042"	10	5	4.0 x .115"	.40	39.95	35.95	31.95	27.95

Vector Prototyping Boards

Part No.	Product No.	Size (W" x L")	Fits Enclosure(s)	Circuit Pattern	Hole Pads	# Holes x Dia.	Power/Ground	Connector	# Mounting	Wt.	1	10	50	100
43140	64P44XXXP	4.50 x 6.50#	18869	A	Drilled only	2860 x .042"	None	None	None	.09	$8.95	$8.49	$7.95	$7.49
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	12.95	12.45	11.95	11.49
37612	169P44XXXP	4.50 x 17.0#	—	A	Drilled only	7524 x .042"	None	None	None	.25	15.95	15.49	14.95	13.95
37621	169P84WE	8.50 x 17.0	—	A	Drilled only	14,448 x .042"	None	None	None	.53	29.95	28.95	27.95	26.95
106551	20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										2.95	2.59	2.29	1.95

* Manufacturer: Velleman ** PC/XT 8-bit # PCB material: phenolic † All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below)

.042" Diameter Copper Alloy Wire Wrap and Push-In Terminals

★ Web Code: XCE

34147: Push-In Micro-Klip Terminals

34155: Miniwrap Wiring Terminals • Shoulder: .045".
- Two-prong with square tail for wire wrapping

34163: Klipwrap Wiring Terminals
- Three-prong with square tail for wire wrapping

shoulder
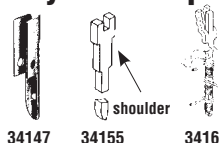
34147   **34155**   **34163**

Part No.	Mfr. Part No.	Height Above .062" Board	Length Below .062" Board	Post Size	Overall Length	1	10
34147	T421-1/C	.200	.097	.032" x .045"	.36"	$8.95	$7.95
34155	T44/C	.065	.530	.025"Sq.	.69"	9.95	8.95
34163	T49/C	.200	.530	.025"Sq.	.83"	16.95	15.45

BusBoard Breadboards and Prototyping Boards

- Precision-drilled
- Precision-etched

Solderless Plug-In Breadboards

These solderless "plug-in" breadboards provide a quick way to build and test circuits, and can be transferred directly to the protoboards right away.
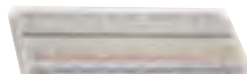
2125026

Part No.	Product No.	Size (L" x W" x D")	Points	1	10	50
2125018	BB300	3.3 x 1.4 x 0.3	300	$5.95	$5.39	$4.79
20601	WBU-301	3.3 x 2.1 x 0.3	400	5.95	5.39	4.79
2123830	BB400T*	3.3 x 2.1 x 0.3	400	5.95	5.39	4.79
2125026	BB830T*	6.5 x 2.2 x 0.3	830	7.95	7.49	6.95

*Transparent

Solderable PC Protoboards

- High-quality FR4 glass epoxy PCBs for long life
- Anti-tarnish protective coating for easy soldering

2127267

Part No.	Product No.	Size (L" x W" x D")	Points	1	10	50
2125042	SB300	3.0 x 1.20 x 0.06	300	$4.95	$4.49	$3.95
2125051	SB400	3.0 x 1.90 x 0.06	400	5.95	5.49	4.95
2191402	SB404	3.75 x 1.85 x 0.06	540	4.95	4.49	3.95
2191411	SB830	7.25 x 1.85 x 0.06	1258	6.95	6.25	—
2125034	BR1	7.0 x 1.85 x 0.06	830	6.95	6.49	5.95
2127241	PR3U	6.3 x 3.9 x 0.06	2356	10.95	9.49	8.95
2127267	ST3U	6.3 x 3.9 x 0.06	2356	9.95	9.49	8.95

PT Series Prototyping Boards

★ Web Code: PBH

- Features power buses that connect to a power jack (recommended P/Ns 101178 and 101187, pg 99)

Part No.	Cross Ref.	Size (L" x W")	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10	50
645677	PB-456	3.5 x 2.5	Double-sided	456 x .036"	4.0 x .140"	$9.95	$8.95	$7.95
262511	PB-1135	5.0 x 3.7	Double-sided	1135 x .036"	4.0 x .140"	12.95	11.95	10.95
262537	PB-1931	6.0 x 4.9	Double-sided	1931 x .036"	4.0 x .140"	14.95	13.95	12.95

645677   **262511**   **262537**
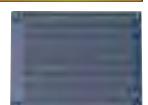
★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Electro Design

DATAK — Pre-Sensitized Circuit Boards & Chemicals

Circuit Boards
- Pre-coated circuit board
- 1/16" thick

★ Web Code: CTB   156751

Part No.	Mfr. Part No.	Description	Size (W" x L")	1	10	50
2097117	14-024	Single sided	2.0 x 4.0	$4.49	$3.95	$3.49
156751	14-034	Single sided	3.0 x 4.0	5.49	4.95	4.49
2161326	14-046	Single sided	4.0 x 6.0	7.95	7.49	6.95
2161334	14-066	Single sided	6.0 x 6.0	10.95	9.95	8.95
156742	14-234	Double sided	3.0 x 4.0	6.95	6.49	5.95
2161342	14-266	Double sided	6.0 x 6.0	11.95	10.95	9.95

Copy Sheets and Chemicals

Part No.	Mfr. Part No.	Description	1	10	50
2097070	12-500	Clear copy sheets (8.5" x 11.5") 5 pk.	$5.95	$5.49	$4.95
70201	ER3*	Dry concentrated etchant (makes 1 pint)	7.95	7.49	6.95
156734	12-404*	4 oz. positive developer	24.95	22.95	19.95
2097088	12-800	Tin plating copper kit†	16.95	15.95	14.95

*Shipped via ground – available in continental U.S. only
† Includes ER-18 tinnit solution, 8"x6"x2" pan, 16 oz. bottle

GC — Prototype Boards

★ Web Code: PBH

Export Design Phenolic Prototype Board
Accommodates all types of ICs, transistor packages and passive parts. Lands and bus bars are tin plated. 0.1" centers.

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616631	22-504	3 1/8 x 5 1/16 x 1/16	$6.95	$6.25	$5.59

Experimenter's Phenolic Prototype Boards

616649: Copper plated with 94 five-point terminals and two 40-point bus strips
616673: Single land pattern

616649   616673

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616649	22-508	2.0 x 6.0 x 1/16	$13.95	$12.95	$11.95
616673	22-512	3.38 x 6.75 x 1/16	6.95	6.49	5.95

Perforated Bare Phenolic Prototype Boards
Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.
- 0.100" spacing
- 1/16" thick

Part No.	Mfr. Part No.	Size (W" x L")	Hole Dia.	1	10	25
616681	22-514	2.25 x 6.0	.042	$6.95	$6.49	$5.95
616690	22-516	4.50 x 6.0	.042	5.95	5.49	4.95

Versa Strip Phenolic Prototype Board
- Alpha-numeric indexing
- 0.035" diameter holes
- Silver-plated land patterns
- 0.1" centers
- 1/16" thick

Part No.	Mfr. Part No.	Size (W" x L")	1	10	25
616622	22-502	3.5 x 6.0	$11.95	$10.95	$9.95

BPS Bus Board Prototype Systems — Through-Hole Prototyping Boards
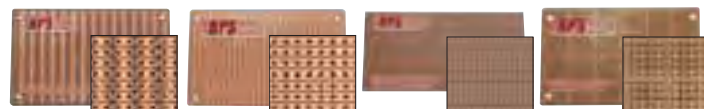
Fig. 1   Fig. 2   Fig. 3   Fig. 4

- High-quality FR4 glass-epoxy circuit board
- 1 oz./ft² copper with anti-tarnish coating for easy soldering
- 0.037" drilled holes on 0.1"(2.54mm) centers

Part No.	Mfr. Part No.	Description	Fig.	Size (W" x L")	1	10
2191461	PR2H1	Single-sided	1	1.97 x 3.15	$3.95	$3.59
2191488	ST1.	Single-sided	2	1.97 x 3.15	3.95	3.59
2191470	PR2H2	Single-sided	1	3.15 x 3.94	6.95	6.25
2191496	ST2.	Single-sided	2	3.15 x 3.94	6.95	6.25
2191429	SB1660	Single-sided	3	3.65 x 7.25	11.95	10.95
2191445	PAD1	Double-sided	4	1.97 x 3.15	4.95	4.49
2191453	PAD2	Double-sided	4	3.15 x 3.94	7.95	6.95

Photofabrication, Exposure and Economy Etching Kit

★ Web Code: MGC

The kits below allow you to produce professional printed circuit boards quickly and at a lower cost than a professional design house.

2121017: Photofabrication kit
- 3 single sided presensitized PCB boards (3" x 5", 4" x 6" and 6" x 6")   • Instruction sheet
- Chemicals: developer and ferric chloride
- Foam brushes, development tray, rubber gloves

2121025: Exposure kit
- Fluorescent light fixture w/ stand   • Instruction sheet
- Daylight fluorescent bulb   • Acrylic weight for artwork

2121033: Economy Etching kit
- 5 liter etching tank   • Instruction sheet
- Air pump and tubing, spraying unit, vinyl gloves

2121017   2121025   2121033

Part No.	Description	1	5
2121017	416-K photofabrication kit*	$59.95	$54.95
2121025	416-X exposure kit	69.95	64.95
2121033	416-ES economy etching kit	64.95	59.95

*Shipped via ground – available in continental U.S. only

JAMECO ValuePro — Prototyping Developer Kit

The Jameco prototyping developer kit includes everything you need to get started with prototyping your own PCB.

- 2 precoated circuit boards, 3" x 4" x 1/16" (P/N 156751, above left)
- 4 oz. positive developer concentrate (P/N 156734, above left)
- 32 oz. etching solution (P/N 616438, pg 137)

Part No.	Description	1	5
2113244	Prototyping developer kit*	$46.95	$42.95

*Shipped via ground – available in continental U.S. only

GC — Bare Copper Circuit Boards – Single Sided

1 oz. copper on base of either fiberglass or reinforced epoxy board.

★ Web Code: CTB

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616471	22-250	3" x 5" x 1/16"	$3.95	$3.69	$3.49
616489	22-260	4" x 6" x 1/16"	4.95	4.49	3.95
616497	22-261	6" x 6" x 1/16"	5.49	4.95	4.49
616500	22-263	6" x 9" x 1/16"	5.95	5.49	4.95
616518	22-264	8" x 10" x 1/16"	9.95	8.95	7.95
616534	22-268	11" x 14" x 1/16"	14.95	13.95	12.95

616518

JAMECO ValuePro — Copper-Plated Blank Circuit Boards

★ Web Code: CTB

Single & double-sided boards are copper plated.
- Copper thickness: 35µm
- Total copper weight: 1 oz per side
- 1.6mm (1/16") thick   • PCB material: phenolic

Fig. 1   Fig. 2   Fig. 3

Part No.	Cross Ref. No.	Description	Fig.	Size (L" x W")	1	10	50
169279	PCBS3X6	Single-sided	3	2.9 x 5.9	$2.95	$2.69	$2.39
169288	PCBS6X6	Single-sided	2	5.9 x 5.9	3.95	3.49	2.95
169296	PCBS12X12	Single-sided	1	11.8 x 11.8	11.95	10.95	9.95
169309	PCBD3X6	Double-sided	3	2.9 x 5.9	3.95	3.49	2.95
169317	PCBD6X6	Double-sided	2	5.9 x 5.9	6.95	6.39	5.59
169325	PCBD12X12	Double-sided	1	11.8 x 11.8	19.95	17.95	15.95

GC — Positive Pre-Sensitized Circuit Boards

1 oz. copper (.0014") on an epoxy glass FR-4 board, UL94V-0 rated. The peel-off coating protects the board while handling or cutting prior to exposure. Use with developer mixed 1:9 with water (recommend P/N 616411, pg 137).

★ Web Code: CTB

Part No.	Mfr. Part No.	Description	Size	1	10	50
616251	21-334	Single-sided	4" x 6"	$6.49	$5.95	$5.49
616260	21-336	Single-sided	6" x 6"	7.95	7.29	6.49
616307	21-353	Double-sided	6" x 9"	13.95	12.95	11.95

BoardworX — Surface Mount Proto Boards

BoardworX utilizes a new SMT prototyping system called the "Universal Grid" concept which allows fast and easy prototyping of almost all surface mount parts on a single board (except BGAs)

2117270/2190531: Surface mount only
2117288/2190549: Surface mount and 28 power plane pads
2117296/2190557: Surface mount and thru-hole
2117309/2190565: Surface mount only (3-pack)

★ *Web Code: HDS*

Part No.	Mfr. Part No.	Size (L" x W")	Grid Spacing (Top/Bottom)	1	10
2117270	SMT-100	3.0 x 2.0	0.02"/0.025"	$11.95	$10.95
2190531	SMT-1100*	3.0 x 2.0	0.02"/0.025"	14.95	14.49
2117288	SMT-200	3.0 x 2.0	0.02"/power pad	9.95	8.95
2190549	SMT-1200*	3.3 x 2.0	0.02"/power pad	14.95	14.49
2117296	SMT-300	3.0 x 2.0	0.02"/0.025"	11.95	10.95
2190557	SMT-1300*	3.3 x 2.0	0.02"/0.025"	14.95	14.49
2117309	SMT-400	1.0 x 0.95	0.02"/0.025"	6.25	5.59
2190565	SMT-1400*	1.0 x 0.95	0.02"/0.025"	7.95	7.49

*Lead-free solder mask with silkscreen and through-board connection vias

BELLIN DYNAMIC SYSTEMS, INC. — Surface Mount Proto Boards

Easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- Board thickness: 0.031" • Size: 7.6"L x 5.0"W
- Compatible w/ .100" single/dual row male headers (see pg 55)

★ *Web Code: HDS*

Small SMT

Part No.	Mfr. P/N	Board Description	1	5
215491	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	$44.95	$39.95
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	44.95	39.95

SOIC

Part No.	Mfr. P/N	Board Description	1	5
215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	$44.95	$39.95

Fine Pitch Dual Row

Part No.	Mfr. P/N	Board Description	1	5
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	$44.95	$39.95

MICROCHIP — PICkit™ 2 Microcontroller Starter Kit

The PICkit™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website.

Includes: PICkit™ 2 development programmer, demo board with 8-bit CMOS MCU, two starter CD ROMs and USB cable

Part No.	Mfr. Part No.	Description	1	5
697338	DV164120	Programmer starter kit	$79.95	$74.95

MICROCHIP — PICkit™ 3 In-Circuit Debugger

The PICkit 3 uses in-circuit debugging logic incorporated into each chip with Flash memory to provide a low-cost hardware debugger and programmer.

★ *Web Code: SUP*

- USB (Full speed 12 Mbits/s interface to host PC)
- Real-time execution • MPLAB IDE compatible (free copy included)
- Built-in over-voltage/short circuit monitor
- Supports low voltage to 2.0 volts (2.0V to 6.0V range)

Part No.	Mfr. Part No.	Description	1	5
2184632	PG164130	PICkit 3 programmer/debugger	$74.95	$69.95

ChipMax2 Low Cost Fast Universal Programmer

- USB interface • 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

Part No.	Mfr. Part No.	Price
694866	CHIPMAX2	$544.95

Schmartboard — SMT to DIP Adapter

★ *Web Code: HDS*

This adapter makes it easy to prototype with surface mount ICs on your solderless breadboard. Simply solder the IC onto the adapter and the pins will plug directly into your board.

- Multiple boards in one package that break away
- Each one includes a row of headers for use with breadboards

Part No.	Mfr. Part No.	Pitch	No. of Boards	1	10
2130263	204-0004-01	1.27mm	3 (one 8-pin, one 18-pin, one 28-pin)	$7.95	$6.95

CAPITAL — Surfboards®

★ *Web Code: HDS*

Mini breadboards for surface mount devices

Part No.	Mfr. Part No.	Description	1	10
207360	9081	For 8-pin SOIC	$1.95	$1.75
207378	9082	For 8-pin SOIC	3.95	3.49
207386	9161	For 14/16-pin SOIC; 0.1"pin spacing; 0.65"H	2.95	2.69
207394	9163	For 14/16-pin SOIC; 0.1"pin spacing; 0.65"H	4.95	4.69

JAMECO ValuePro — Dual-Sided SMT Adapter Boards

These surface mount adapters have different package topologies on either side so you can test multiple SMT chips using just one adapter board.

- 0.10" pin spacing
- Holes are plated-through
- Boards easily breakaway

Part No.	Size (L" x W")	Fits Packages	1	10
2178195	2.6 x 0.7	8/16/28-pin SOIC & TSSOP	$9.95	$8.95
2178208	3.4 x 2.3	SOIC, TSSOP, SOT, TO, HC and SMT passive	29.95	26.95

USBtinyISP AVR Programmers

The USBtinyISP is a low-cost, simple solder kit, and has both 6 and 10-pin standard ISP cables. Works with AVRDude and AVRStudio-compatible & tested under Windows® XP, Linux & MacOS X.

NOTE: Does not do JTAG or high voltage programming.

- Max clock rate: 400kHz
- Read/write speed: 2kb/s, 1kb/s
- 2 status LEDs: "USB/Power Good" and "Busy"
- I/O buffering allows programming of 2V-6V targets
- Powered via 5V USB bus @ <100mA

Includes: 6 & 10-pin ISP cable
Requires: USB-A to USB-B cable (P/N 222608, pg 146, not included)

Part No.	Mfr.	Includes	1	5
2136788	Adafruit	PCB, enclosure, MCU and components (kit)	$25.95	$24.95
2157790	DFRobot	Assembled board	19.95	17.95

Pololu — USB AVR Programmer

This programmer emulates an AVRISP v2 on a virtual serial port, making it compatible with standard AVR programming software.

- In-system programmer (ISP) • Extremely compact
- Compatible with Windows XP, Windows Vista, Windows 7 and Linux

Includes: 6-pin ISP programming cable and USB-A to mini-B cable

Part No.	Description	Size (L" x W")	1	5
2136420	USB AVR programmer	1.35 x 0.6	$19.95	$18.95

TopMax II High Speed Universal Programmer

- USB interface • 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

★ *Universal Programmers and Adapters — Enter Web Code SUP*

Part No.	Mfr. Part No.	Price
2110158	TOPMAXII	$794.95

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

Electro Design

PC Power Supplies & PC Peripherals

60 to 350-Watt PC Power Supplies

1955941　　2081887　　2110422　　427928　　2172754

AT Power Supplies

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/Amps)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	1	5	25
2188596	G-Power	GP-4200PB	200	+5/20, -5/0.5, +12/8, -12/0.5	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 103)	UL/CSA/TUV	6.0 x 6.0 x 3.4	3.0	$39.95	$34.95	$29.95
2208219	Sparkle	SPI-300G-B (no plug)	300	+5/30, -5/0.5, +12/12, -12/0.5	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 103)	UL/CSA/TUV FCC	5.5 x 5.9 x 3.4	3.5	64.95	59.95	54.95

ATX Power Supplies

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/Amps)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	1	5	25
1955941	Magic Power Tech	MPI-806H*	60	+3.3/6, +5/8, +12/3, +5VSB/0.75, -12/0.5	90-264 @ 47-63 switching	Connector CN1-CN3	UL/CB/TUV	5.0 x 3.1 x 1.5	1.0	$89.95	$84.95	$79.95
2081887	Enhance	ENP-0185T*	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	200-240 @ 50	3-prong AC receptacle (P/N 38050, pg 103)	CUL/TUV/CE	7.5 x 3.3 x 1.7	2.5	6.95	6.25	5.59
2110422	Sparkle	SPI2501UH-B204*†	250	+3.3/16 +5/18, +12v1/16, +12v2/16 -12/0.8, -5/0.3, +5VSB/2.5	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 103)	UL/CSA/TUV/ CE/CB††	7.5 x 3.9 x 1.6 (1U)	2.9	79.95	69.95	64.95
427928	Seasonic	SS-300SFD Active PFC*†	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 103)	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	59.95	53.95	49.95
2179497	FSP	IP-S350AQ2-0†	350	+3.3/20, +5/16, +12/10, +12/13 -12/0.3, +5VSB	115/230 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 103)	UL/TUV/CE	6.0 x 5.5 x 3.5 (1U)	2.7	19.95	17.95	14.95
2172754	Top Micro	P6350H1FRS2*	350	+3.3/20, +5/20, +12/16, +12/12, -12/1, +5VSB	115/230 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 103)	UL/CUL/TUV/CE	8.0 x 4.0 x 1.5 (1U)	3.0	21.95	19.95	17.95

*See photo above　†Comes with SATA ready connector　††80 Plus energy efficient

ATX Power Cable

Part No.	Mfr.	Mfr. Part No.	Description	Length	AWG	1	10	100
170238	Jameco ValuePro	ATX-400-RV-R	20-pin ATX extension cable (female to male)	15"	18	$8.95	$7.95	$6.95

Computer Switchbox

- 2-port switchbox
- DB25 female (2 PCs to 1 printer)
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.4 lbs.

★ Web Code: CAK

Computer Cables on page 146

Part No.	Cross Ref. No.		1	5
20095	40D3-17602		$19.95	$17.95

CPU Cooling Fans without Heat Sinks for Socket 370 PIII

- Size: 2.55"W x 1.0"D x 3.15"H

★ Web Code: MBG

2125886

Part No.	Intel Part No.	Description	1	10
2125878	A50441-002	51mm DIN, 7" leads with 3-pin connector	$1.75	$1.49
2125886	A50933-003	60mm DIN, 7" leads with 3-pin connector	1.95	1.75

Trackball, Mouse, Keyboard & Keypad

ione | NMB

★ Web Code: LBU

305082　　2006650　　681230　　265375

Part No.	Manufacturer	Mfr. Part No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
305082	IOne	Libra-90	Trackball	USB-PS/2	PS/2 trackball mouse with USB adapter, black	5.6 x 4.7 x 1.9	$26.95	$23.95	$21.95
2006650	IOne	MSM9UP-BLK	Optical	USB-PS/2	3-button mouse with scroll, black	4.5 x 2.3 x 1.5	8.95	7.95	6.95
681230	NMB Tech.	RT915CTW	Keyboard	PS/2	104-key w/12 function keys & built-in SRS 3D speakers, beige	18.5 x 10.0 x 3.2	9.95	8.95	7.95
265375	IOne	Scorpius-22	Keypad	RS232(DB9)	22-key numerical pad, tilt-adjustable, IBM/PC compatible, black	4.3 x 3.0 x 0.5	46.95	44.95	43.95

SCSI Card & FireWire Adapter Card

★ Web Code: VBB

Part No.	Mfr.	Product No.	Bus	Ports	Connectors	Description	1	10
149294	ValuePro	CI-2020	ISA	4	50-pin F	SCSI card, DOS, Windows® NT/95, OS2 netware, SCO UNIX compatible, internal and external SCSI-II connectors, fast SCSI II	$14.95	$13.49
2209238	SIIG	NN-8IS212-S2	PCI	4	USB	FireWire 800 + hi-speed USB combo/FireWire adapter	29.95	26.95

149294　　2209238

FIBER OPTICS LAB KIT

Nine experiments include making a light guide, cable transmission, characteristics of connectors & splices, index-matching, transmitter & receiver designs, and termination techniques.

Contains: Fiber optic cable, optical light pipe, splices, connectors & polishing film, photodetectors, Tx/Rx electronics and 68-page guide.

Part No.	Mfr. Part No.	1	5
169914	IF-LMH	$59.95	$49.95

INDUSTRIAL FIBER OPTICS

ANTI-VANDAL METAL PUSHBUTTON SWITCHES

seeed studio

Shiny polished surface and reusable screw terminals.
- SPST　• 3A @ 250VAC　• Screw terminal　• IP67

Part No.	Mfr. Part No.	Color	Price
2217553	TEM12123B	Cabon black	$3.95
2217561	TEM12125B	Crimson red	3.95
2217570	TEM12127B	Royal blue	3.95

2217570

Computer

19" Rack Mount Enclosures

JAMECO ValuePro

- Ventilation holes on all sides
- Front and back panels are steel with aluminum, pre-punched face plates
- 0.12" thick black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813

Includes: Mounting screws

Part No.	Dimensions (In.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	5
149500*	3.50	1.70	15.80	8.0	$34.95	$29.95
132813	1.73	1.25	9.75	6.2	39.95	36.95
132822	3.46	3.00	9.75	7.9	53.95	48.95
132840	3.46	2.88	11.75	9.1	56.95	51.95
132848	5.22	4.75	11.75	10.6	64.95	59.95
132864	8.56	8.00	13.50	15.4	109.95	99.95

*2U fixed rack shelf

★ Rack Mount Products — Enter Web Code GAT

TRIPP-LITE Super 7 Standard Surge Protector

- $75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes • 7 outlets
- Effective spike and noise suppression w/ diagnostic LEDs

Part No.	Mfr. Part No.	Joules	Size (L" x W" x H")	Wt. (lbs.)	1	5
124337	Super7	2350	10.5 x 2.5 x 1.5	1.6	$19.95	$17.95

★ Surge Protectors — Enter Web Code CAC

★ DIN Mounting Rails Accessories — Enter Web Code MBM

6-Outlet Surge Suppressor with Coax Protection

A wall mount 6-outlet surge suppressor with coax protection that defends your equipment from electrical surges on power lines and provides protection for coaxial inputs such as TVs, VCRs and satellite receivers.

Surge protection specifications:
- Elec. rating: 125V/15A/1875W
- Max. surge dissipation: 200 joules
- Max. spike current: 4500A
- Clamping voltage: 400V

Coaxial line surge specifications:
- Max. energy dissipation: 46 joules
- Max. spike current: 1200A

Part No.	Mfr. Part No.	1	10	25
2132200	ALG242	$4.95	$2.95	$2.49

cebek Adjustable Timer Module

Adjustable from 1 sec. to 3 mins.
- Maximum rating: 12VDC @ 5A
- Reserve polarity protection
- Time adjusted with potentiometer

Part No.	Mfr. Part No.	1	5
2171292	THR-300	$19.95	$18.95

WAGAN Automotive Night Light

- Reading light with On/Off switch
- Powered via 12VDC cigarette lighter
- 2.5" diameter light with wide angle beam
- 5" long flexible cord for adjustment

Note: Not for use in 24VDC systems

NEW MARKED IN PINK

Part No.	Mfr. Part No.	1	10
2202124	9585	$2.95	$2.59

HDD Removable Enclosure

SATA Hot Swappable
- For 5.25" drive bays
- For 3.5" SATA and SATA II hard disks

★ Web Code: HDD

Includes: SATA cables, 2 door keys & mounting screws

Part No.	Description	Size (W" x D" x H")	1	5
2120444	SATA	5.9 x 7.8 x 1.7	$9.95	$8.95

ntone SATA External Enclosure

- For SATA 3.5" and 2.5" drives
- Internal fan for cooling drive
- SATA-II compatible

★ Web Code: HDD

Includes: 20" external SATA cable, 34W dual output table-top power supply w/ a 4-pin DIN connector, power cable & hardware

Part No.	Description	Size (L" x W" x H")	1	5
2125211	SATA	7.9 x 5.1 x 1.9	$7.95	$6.95

JAMECO ValuePro 6-Outlet Surge Protectors

20175: • Metal power strip
- Size: 12.3"L x 2.4"W x 1.3"H • 4' cord

216485: • Heavy-duty power cord (14AWG x 3)
- Size: 9.5"L x 1.7"W x 1.4"H • 4' cord
- Clamping voltage: 400V
- Max. surge voltage: 6500V
- RESET/OFF switch with built-in 15A circuit breaker

Part No.	Mfr.	Product No.	Spike Current (Max.)	Wt. (lbs.)	1	10	25
20175	ValuePro	51W1-13206	4500A, 50 joules	1.5	$10.95	$10.49	$9.95
216485	ValuePro	51W1-10206	4500A, 150 joules	0.9	12.95	11.49	9.95

JAMECO ValuePro USB 2.0 Active Repeater Cable

Regenerates the USB signal for maximum reliability and performance over extended distances at maximum transfer rates of 480Mbps.
- Buffers and regenerates upstream and downstream signals
- Cascade up to 5 to extend distance to 25m (81 ft.) between USB device and computer

Requirements: Desktop or laptop with available USB port, Windows® 98SE/ME/2000/XP or Mac OS X

Part No.	Cross Ref. No.	Length	1	5
2075840	AR2500	5 meters (16.4 ft.)	$11.95	$10.95

star Analog DIN Rail Timer

- DIN rail/back panel mount (17.5mm)
- 10 time ranges
- 13 timing functions
- Output contact: SPDT (1C/O)
- Contact rating: 5A (NO), 3A @ 250VAC (NC)
- Faceplate (IP50), housing (IP40), terminals (IP20)

Part No.	Size	1	5	25
2193862	17mm	$32.95	$29.95	$27.95

JAMECO ValuePro Black/Yellow Flashlight

- General purpose handheld flashlight
- 6" overall length
- Uses 2 C-cell batteries (sold separately)

NEW MARKED IN PINK

Part No.	Cross Ref. No.	1	10
2202116	FL6	$2.95	$2.59

JAMECO ValuePro USB-A Cable w/ Bracket

- Add additional USB ports to your PC
- Dual USB-A female ports
- Supports data transfer rates of 12Mbps • 8"L cable

Part No.	Description	1	10	25
144813	(2) 1x5-pin connectors	$3.95	$3.59	$3.29

★ Computer Brackets — Enter Web Code EAM

Replacement Switches for AT-Style Computer Cases

- Contacts rated at 250VAC

174238: PC Pushbutton
- Alternate action double pole switch
- UL/CSA/VDE approved

127028: PC Rocker
- For mini-tower cases
- UL/CSA approved • DPST

Part No.	Current	Size (L" x W" x D")	1	10	100
174238	8A	0.9 x 0.7 x 0.9	$2.49	$1.95	$1.75
127028	10A	0.9 x 1.2 x 1.4	1.95	1.75	1.49

JAMECO ValuePro Computer Service Tool Kit

Zippered pouch neatly holds 13 tools.
- Antistatic chip inserter
- Antistatic chip extractor
- Antistatic 3-prong parts/chip retriever/extractor
- Antistatic chip tweezers
- 1/4" nut driver
- 3/16" nut driver
- STAR screwdriver
- #0 Phillips screwdriver
- #1 Phillips screwdriver
- 1/8" slotted screwdriver
- 3/16" slotted screwdriver
- Extra parts tube

NEW MARKED IN PINK

Part No.	Cross Ref. No.	1	10
2209060	400077	$15.95	$14.49

DIN-Rail Switching Power Supplies 5 to 48VDC Output, see page 112

Computer

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS
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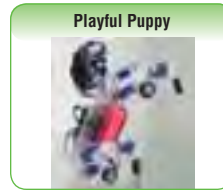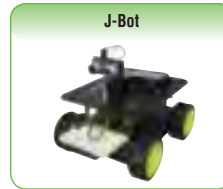
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Computer Cables & Adapters

3 LEVELS OF SAVINGS — NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

JAMECO ValuePro — Computer Cables and Adapters

134042 | 67257 | 2209211 | 2155188 | 132346 | 31722 | 180582

155352 | 1944994 | 73155 | 2114351 | 2114407 | 387954

USB-A (M) to USB-A (M) | USB-A (M) to USB-B (M) | USB-A (M) to USB-A (F) | 2144833 | 645351

Extension Cables
• All lines connected straight through

Male to Female
★ Web Code: CCS

Part No.	Description	Lgth (ft.)	Color	1	10	100
2075971	DB9 †	6	Black	$1.95	$1.49	$1.25
199639	DB9 *	6	Black	5.95	5.35	4.79
2179702	DB9 *	6	Beige	4.49	3.95	3.49
25701	DB9 *	6	Beige	5.95	5.35	4.79
148516	DB9 *	10	Beige	6.95	6.25	5.49
181359	DB15	6	Gray	6.95	6.25	5.59
66165	HDDB15 *	6	Beige	3.95	3.55	3.19
148532	HDDB15 *	10	Beige	8.95	7.95	6.95
134042	HDDB15 **	6	Beige	4.95	4.49	3.95
175291	DB25 *	3	Black	3.95	3.49	2.95
67257	DB25 *	6	Gray	6.95	5.95	4.95
39511	DB25 *	10	Gray	7.95	6.95	5.95
177279	DB25 *	15	Gray	8.95	7.95	6.95
101996	DB25 *	25	Gray	11.95	10.75	9.65
181295	DB37	6	Gray	5.95	5.35	4.75

Male to Male

Part No.	Description	Lgth (ft.)	Color	1	10	100
181666	DB9	10	Beige	$6.95	$6.25	$5.49
181286	DB15	6	Gray	6.95	6.25	5.49
2209211	HDDB15	2.5	Black	3.95	3.59	3.25
2155188	HDDB15 *	6	Black	4.95	4.49	3.95
66174	HDDB15	6	Beige	3.95	3.55	3.19
148523	HDDB15	10	Beige	6.95	6.49	5.95
174001	DB25 *	3	Black	5.95	5.35	4.79
65788	DB25 *	6	Gray	6.95	6.49	5.95

Female to Female

Part No.	Description	Lgth (ft.)	Color	1	10	100
224267	DB25 *	6	Gray	$5.95	$5.49	$4.95

*with thumbscrews **male with thumbscrews/female w/ nuts
†with thumbscrews, filters & green connectors

Serial Cables w/ Thumbsrews

Part No.	Description	Lgth (ft.)	Color	1	10	100
132346	DB9 F to F	6	Beige	$4.95	$4.45	$3.95
196366	DB9 F to F	10	Beige	6.95	6.25	5.49

AT F-M Adapter Serial Cables

Part No.	Description	Lgth (ft.)	Color	1	10	100
109584	DB9 F to DB25 M	1	Beige	$2.95	$2.65	$2.25
31722	DB9 F to DB25 M	6	Beige	4.95	4.49	3.95

★ **HDMI Cable — Enter Web Code DEM**

★ **Power Splitter & Adapter — Enter Web Code TAE**

TOP SELLING USB RECEPTACLES
Thru-hole PCB Mount USB Receptacles.   2096245

Part No.	Description	Price
2096181	USB 2.0 Type A female, right angle	$.49
2097011	USB 2.0 Type A female, vertical	.49
161024	USB 2.0 Type A female, right angle	.99
2076551	Dual USB 2.0 Type A female, right angle	.75
2096245	USB 2.0 Type B female, right angle	.39
230958	USB 2.0 Type B female, right angle	1.09
2096261	USB mini Type B, right angle (SMT)	.99

Serial Null Modem Cables
• Gray   • Pin-outs in ( )
★ Web Code: ABE

Part No.	Description	Length (ft.)	1	10	100
181404	DB9 F to F (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7)	6	$5.55	$4.95	$4.49
180698	DB9 F to F (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7)	10	6.75	5.95	5.45
180582	DB25 M to DB9 F (2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8)	10	5.95	5.35	4.75

6-Pin Mini DIN PS/2 & AT Cables
★ Web Code: HAE

Part No.	Description	Length (ft.)	Color	1	10	100
174772	Male to male	6	Black	$2.95	$2.49	$1.95
112628	Male to male	10	Beige	5.95	5.49	4.95
28549	Male to female	6	Beige	4.75	4.25	3.95

36-Pin Male Centronics Parallel Printer Cable
★ Web Code: NAV

Part No.	Description	Length (ft.)	Color	1	10	100
155352	USB-A (USB1.0)	6	Gray	$3.95	$3.59	$2.95

*Manufacturer: Sabrent

DIN Male Printer & Keyboard Cables for Mac®

Part No.	Description	Length (ft.)	Color	1	10	100
1944994	8-pin (with EMI)	3.3	Black	$1.49	$1.25	$.99
10604	8-pin	6	Gray	3.95	3.49	3.05
130025	8-pin	10	Gray	4.95	4.49	3.95

IEEE 488
★ Web Code: EAJ

Part No.	Description	Length (ft.)	Color	1	10	100
73155	24-pin GPIB	3.3	Gray	$24.95	$22.49	$19.95
115782	24-pin GPIB	6.6	Gray	29.95	26.95	23.95

SATA Disk Drive Power Adapter
• 4-pin Molex male
★ Web Code: SAC

Part No.	Description	Length (ft.)	1	10	100
2114351	Dual 15-pin straight female	0.5	$2.95	$2.59	$2.29

SATA Data Cable

Part No.	Description	Length (ft.)	1	10	100
2114407	7-pin internal	1.6	$1.95	$1.75	$1.49

Disk Drive Cables
★ Web Code: TAE

Part No.	Description	Length (ft.)	1	10	100
32686	40-pin (IDE)	1.5	$1.95	$1.49	$1.25
32715	50-pin (SCSI)	1.5	3.95	3.49	2.95

Ribbon Cable Assemblies
★ Web Code: VAA

Part No.	Description	Length (ft.)	1	10	100
12408	DB25 M to F (28 AWG)	4	$6.95	$6.25	$5.59
208582	DB9 M to F (28 AWG)	6	4.95	4.49	3.95

USB-A to 5-Pin Mini USB Adapter
★ Web Code: NAV

Part No.	Description	Length (ft.)	Color	1	10	100
2119777	USB-A F to mini F	1.4	Black	$2.95	$2.59	$2.29

USB-A Gender Adapter

Part No.	Description	Length (ft.)	Color	1	10	100
316806	Female to female	1.5	Black	$2.95	$2.65	$2.39

USB-A to DB9 Male Serial Cable/Adapters

Part No.	Description	Length (ft.)	Color	1	10	100
387954	w/ jackscrews	2	Gray	$16.95	$15.95	$13.95
2115346	w/ thumbscrews	6	Gray	18.95	16.95	14.55

PS/2 to USB Adapter
★ Web Code: CBB

Part No.	Description	Length (ft.)	Color	1	10	100
645351	A M to 2 PS/2 F	1.4	Black	$9.95	$8.95	$7.95
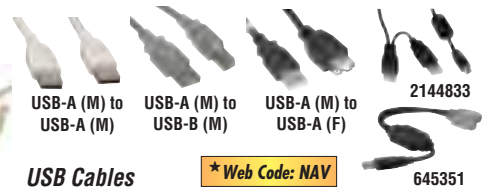
USB Cables
★ Web Code: NAV

Part No.	Description	Lgth (ft.)	Color	1	10	100
326474	A M to M (2.0)	3	Beige	$1.95	$1.75	$1.49
2150985	A M to M (2.0)	6	Blue	1.49	1.25	.99
229682	A M to M (2.0)	6	Beige	2.95	2.59	1.95
222033	A M to M (2.0)	6	Black	2.95	2.59	1.95
222050	A M to M (2.0)	15	Black	3.25	2.95	2.65
326482	A M to F (2.0)	3	Beige	1.95	1.75	1.59
229771	A M to F (2.0)	6	Beige	2.95	2.65	2.39
222068	A M to F (2.0)	6	Black	3.25	2.95	2.25
229623	A M to F (2.0)	6	Clear	2.95	2.65	2.39
222076	A M to F (2.0)	10	Black	3.49	2.95	2.49
222084	A M to F (2.0)	15	Black	3.95	3.49	2.95
229711	A M to B M (2.0)	3	Beige	1.95	1.75	1.59
222608	A M to B M (2.0)	3	Black	1.95	1.75	1.59
229730	A M to B M (2.0)	6	Beige	2.95	2.49	1.95
2192675	A M to B M (2.0)†	6	Black	2.49	2.25	1.75
222010	A M to B M (2.0)	6	Black	2.95	2.49	1.95
229594	A M to B M (2.0)	6	Clear	2.95	2.49	1.95
229738	A M to B M (2.0)	10	Beige	3.25	2.95	2.25
222018	A M to B M (2.0)	10	Black	3.25	2.95	2.25
229762	A M to B M (2.0)	15	Beige	3.49	2.95	2.49
222026	A M to B M (2.0)	15	Black	3.49	2.95	2.49
673694	A M to 5-pin mini B	6	Black	2.95	2.59	2.19
2202183	A M to 5-pin mini B	6.6	Black	5.95	5.39	4.75
2144833	A M* to 5-pin mini B	2	Black	2.95	2.49	1.95
2135064	A M to micro-B	3	Black	2.95	2.59	2.29
2196086	A M to micro-B	3.2	White	2.95	2.59	2.29

†RFI filter *Dual A = USB-A; B = USB-B; M = male; F = female

Apple USB Chargers, Data Cable, Earphones and Adapters

2151056 | 2151048 | 2154935

Part No.	Description	Price
2154935	Earphones with remote & mic	$7.95
2151030	Charge kit (1ea. 2151048 & 2151056)	15.95
2151048	USB charger, 5V @ 1A, white	9.95
2151056	USB-A to Apple 30-pin, 36"	7.95
2207638	Apple 30-pin data/charge cable, 39"	9.95
2207620	Apple 8-pin data/charge cable, 39"	19.95
2196094	USB micro-B to Apple 30-pin adapter	2.95
2196060	USB micro-B to Apple 8-pin adapter	2.95
2196078	Apple 30-pin to Apple 8-pin adapter	2.95

SIIG FireWire 400 Cables   NEW MARKED IN PINK
• 24K gold-plated connector   • Color: black

2202191 | 2202204 | 2202239

Part No.	Description	Length (meter)	1	10	100
2202191	4-pin to 4-pin	3	$6.95	$6.25	$5.59
2202221	6-pin to 4-pin	2	9.95	8.95	7.95
2202204	6-pin to 4-pin	3	11.95	10.95	9.95
2202212	6-pin to 4-pin	5	14.95	13.49	11.95
2202239	6-pin to 6-pin	2	6.95	6.25	5.59

Computer

4GB Mini USB Flash Drive

MW

A 4GB USB flash drive in the shape of a Mean Well power supply! Perfect for storing, transporting and sharing your presentations, documents, photos, music, and more.

- Compatible with Windows® 2000, XP, Vista and 7; Linux; Mac® OS

Part No.	Description	1	10
2162521	4GB USB flash drive	$5.95	$4.95

USB 2.0 4-Port Hub with Clock and Mood Light

Enjoy high speed connectivity through each of the 4 USB ports.

- 4-port USB 2.0 (supports USB 1.1)
- Color changing mood light (purple, blue, green, red)
- 12 hr clock display   • Size: 3.5"W x 3.5"D x 2.0"H
- Built-in USB cable (approx. 3 ft.)

Part No.	Description	1	5
2120399	4-port USB hub	$7.95	$6.95

USB 2.0 4-Port Hub

JAMECO ValuePro

Add multiple high performance USB 2.0 devices to your computer or laptop. Unique design allows for easy storage and use.

- Stylish compact size and light weight
- USB 2.0 up to 480 Mbps
- Plug-and-play, bus powered
- 1 upstream, 4 downstream ports

Part No.	Cross Ref. No.	1	5
2184085	HU2Z40	$8.95	$8.49

USB 2.0 to SATA/IDE Combo Adapter

JAMECO ValuePro

- SATA 1.0a & USB 2.0 compliant
- 40 & 44-pin IDE plus one SATA connector
- Operate one IDE & one SATA HDD simultaneously
- External power supply provided

Requires: IBM compatible Pentium® 233 MHz, USB, Windows® 98SE/ME/XP, Mac® OS 8.6 or later

Part No.	Cross Ref. No.	1	5
2075815	AS1200	$49.95	$44.95

Redpark TTL Serial Cable for iOS

Connect your iOS device to external sensors and microcontrollers!

- Enables development of iOS apps for private use in homes, schools and offices

Requires: Downloadable Redpark SDK, sample code and iOS 5.0.1 or later

Part No.	Mfr. Part No.	Price
2169176	C2-TTL	$59.95

★ **Bidirectional Converters — Enter Web Code KEM**

★ **Video Accessories — Enter Web Code YBE**

★ **USB Hubs — Enter Web Code NEM**

ATEN RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.   • Data rate: 100 kbps
- Controlled by RTS signal   • DCE and DTE selectable
- 4-wire full duplex or 2-wire half duplex
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- RS-232: DB25 female connector   • Input: 110VAC
- Power consumption: 9V (1.35W max.)
- Size: 2.2"L x 3.2"W x 0.8"D
- Weight: 0.9 lbs.
- One-year warranty

197931: Port powered (power adapter not included)   **117701**

- Data rate: 100kbps

Part No.	Mfr. Part No.	1	5
117701	IC-485S	$59.95	$53.95
197931	IC-485SN	59.95	53.95

2.4GHz Wireless Audio/Video Transmitter & Receiver

- 4-ch transmitter selectable/ 4-ch receiver viewable
- Video input/output: 1Vp-p composite @ 75Ω
- Audio input/output: 2Vp-p typical, 2.7Vp-p max. @ 600Ω
- RF impedance: 50Ω
- Size: 4.3"W x 3.4"D x 1.2"H

★ **Web Code: YBE**

Includes: 12V wall adapter, antenna & mounting hardware

2191875

2191875: Transmitter

- Current consumption: 350mA typical; 650mA at start-up
- Output power: 1 watt
- Alarm input: TTL/CMOS (level detection)

2115709

2115709: Receiver

- Sensitivity: -82dBm typical
- Current consumption: 250mA typical

Part No.	Description	1	5
2191875	2.4GHz wireless trans.	$74.95	$69.95
2115709	2.4GHz wireless receiver	89.95	79.95

Portable Digital I/O Device

NEW MARKED IN PINK

NI USB-6501

- 24 digital I/O lines, 32-bit counter
- Plug-and-play USB connectivity
- USB 2.0 full speed (12 Mb/s) bus interface
- Bus-powered design for convenience
- Over-voltage protection, 8.5mA current drive
- Built-in screw terminals or generic 34-pin connector

NATIONAL INSTRUMENTS

Part No.	Mfr. Part No.	1	5
2217895	779205-01	$69.95	$64.95

phone halo Wallet TrackR

- Works on iPhone 4s & later, iPad Retina and Android 4.3 devices
- 2-way ringer function – find your lost item or phone (even if it's on silent)
- GPS – displays a map showing where all your items are located
- No recharging – easily replaceable batteries last up to two years
- Distance indicator – displays distance between yourself and your items
- Multiple item tracking – track up to 10 items simultaneously
- Completely customizable – customize your sounds, alert settings and more
- Free TrackR App (downloadable on the Apple App Store and Google play)   • Powerful Bluetooth v4.0

Part No.	Mfr. Part No.	Description	Size (H x W x Thick)	Price
2203901	WT001	Locate anything in seconds using your iPhone or Android!	1.57"x 2.56"x 0.016"	$22.95

Mini DVR Cameras

Sound Activated Recording

- Take JPEG snapshots or AVI video
- Store files to microSD card
- USB connection for retrieving files & charging
- 90 minutes of available space for recorded video and audio files   • Built-in lithium battery
- 30 FPS for 720 x 480 resolution   • FOV: 62°
- Color CMOS camera, 1.0 lux   • Compatible with Windows® ME, 2000, 2003, XP, Vista, Mac OS 10.4
- MicroSD card not included
- Battery life 60 mins.   • Covert keychain camera

Part No.	Mfr. Part No.	1	5
2143953	CAMCOLVC8N	$39.95	$36.95

TTL Serial JPEG Camera with NTSC Video

This camera module outputs NTSC video and can take snapshots of that video and transmit them over the TTL serial link. Take up to 640 x 480 resolution pictures and pre-compress them for quick and easy storage.

- Manually adjustable focus   • 30MP CMOS
- Progressive scan mode   • Motion detection
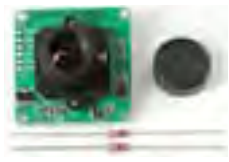
Part No.	Mfr. Part No.	Size	1	5
2144340	P7030	1.25" x 1.25"	$39.95	$37.95

COP Power 3-Axis IR Dome Camera

- 550 TVL 1/3" color CCD
- 93° viewing angle
- 48' IR distance
- IP65   • IR lens: 3.6mm
- 24 IR LEDs

Requires: 12VDC @ 300mA

Part No.	Mfr. Part No.	Price
2185491	INS-D315H-C	$39.95

★ **Cameras — Enter Web Code MBB**

TRANSFORMER E-CORE AND BOBBIN

With two E-cores and a bobbin, you can wind your own step-up or step-down transformer.

2160665

2160665: E-core, ungapped AL=2770, ±25%

2160657: Horizontal mount, 16-pin, 0.1"

2160657

JAMECO ValuePro

Part No.	Size (in")	Required	Price
2160665	1.38 x 0.82	2	$5.95
2160657	1.72 x 1.56 x 1.13	1	4.95

Computer
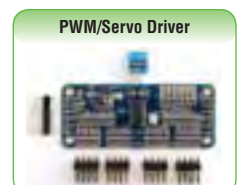
★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Waterproof Tube-Style IR Color Camera

- Auto white balance and gain control
- 1/4" CCD image sensor
- 0 lux w/ 20 IR LEDs   • NTSC
- 512(H) x 492(V)
- S/N ratio: >48dB
- 4.3mm lens with F1.8
- 420 horizontal line resolution
- Video output: 1Vp-p, 75   • Size: 2.1"Dia. x 3.8"L

Requires: 12VDC @ 160mA power supply (recommend P/N 162996, pg 92)

Includes: Mounting hardware

Part No.	Cross Ref. No.		1	5
319901	15-CM25WM		**$99.95**	**$89.95**

VIDEO BORESCOPE/WIRELESS INSPECTION CAMERA

EXTECH INSTRUMENTS

- Detachable wireless 3.5" color TFT LCD viewable from up to 32' away
- 39" flexible gooseneck and waterproof camera head with 2 built-in bright LEDs for dark areas
- Camera: 712x486 (NTSC), 50° view angle

Part No.	Mfr. Part No.	Price
2112591	BR200	$299.99

Webcams with Built-In Microphone

- USB interface with 4' cable   **2138062**
- Adjustable mounting
- 8 Megapixel   • 30 FPS
- Compatible with Windows PCs, QQ, Skype, MSN, etc.
- Video capture software included

Part No.	Cross Ref. No.	Case Color	1	5
2138062	X193UA-RD	Red	**$19.95**	**$17.95**
2167269	X193UA-GN	Green	19.95	17.95
2135873	X193UA-BK	Black	19.95	17.95
2179489	X193UA-BL	Blue	19.95	17.95

Waterproof USB Video Borescope

Allows for easy surveying of hard-to-reach places with 4 adjustable LEDs on the top on the camera.

- Flexible 16' cord   • 9.8mm camera
- Webcam and photo snap function
- Works with Windows® XP, 7, Vista and Mac iOS

Part No.	Cross Ref. No.		1	5
2177707	INSPECTOR-T1		**$34.95**	**$31.95**

8MP Webcam with Built-in Microphone and LEDs

- Fixed 4' USB 2.0 cable with in-line dimmer for the 4 LEDs
- Adjustable viewing angles
- 8 Megapixel   • 30 FPS
- Compatible w/ Skype, MSN, QQ, etc.
- Digital zoom functions with downloadable software

Part No.	Cross Ref. No.		1	5
2192659	SZ-T01UA-WT		**$19.95**	**$17.95**

Pan & Tilt Assembly

- For horizontal surface mount
- Aluminum multifunction bracket

2157870: • Mini pan & tilt kit
- 15kg/cm @ 4.8V   • Rotation: 0-180°

2144518: • 5.5kg/cm @ 6.0V
- Ball bearing servos
- 100-800mA
- Rotation: 0-180°

Part No.	Mfr.	Mfr. Part No.	1	10
2157870	Dagu	RS002B	$14.95	$13.95
2144518	DFRobot	FIT0045	35.95	33.95

Handbooks, Project Guides & Reference Books

Forrest M. Mims III Engineer's Guides

One of the most widely read electronics authors in the world, Forrest M. Mims III has written over 60 books and has been honored twice for excellence by the Computer Press Association. "Getting Started in Electronics" has sold more copies than any other book on the subject. It is a complete electronics course in just 128 pages! Mims teaches the basics and takes you on a tour of analog and digital components. He explains how they work and shows how they can be combined for various applications.

2112743 **2112778** **2112786**
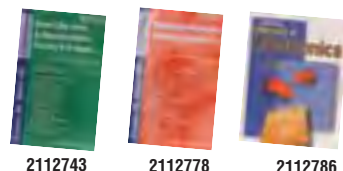
Part No.	Description	Pages	Price
2112743	Forrest M. Mims III Engineer's Guide to Electronics Volume I: Timer, Op Amp, Optoelectronic Circuits & Projects	124	**$13.95**
2112751	Forrest M. Mims III Engineer's Guide to Electronics Volume II: Science & Communication Circuits & Projects	140	13.95
2112760	Forrest M. Mims III Engineer's Guide to Electronics Volume III: Electronic Sensor Circuit & Projects	144	13.95
2112778	Forrest M. Mims III Engineer's Guide to Electronics Volume IV: Electronic Formulas, Symbols & Circuits	192	13.95
2112786	Forrest M. Mims III Getting Started in Electronics, A Complete Electronics Course	128	19.95

Handbooks, Project & Reference Books

Whether you're an engineer or hobbyist, Jameco has the book for you. Jameco offers a broad selection of reference books, project books and pocket handbooks to guide you through all of your projects, A through Z! Don't see what you need below? Be sure to check out our website for our complete selection of reading materials.

2175980 **2146337** **141330** **2208500** **2204138** **357659** **2204146** **2168384** **2181440**

Part No.	Description	Pages	Price
2193854	Getting Started with BeagleBone. Linux-powered projects with Python and JavaScript. Also covers BeagleBone Black.	144	**$14.95**
2175980	Getting Started with Raspberry Pi. Covers uses with Arduino, create Web-connected projects and programming with Python & Scratch.	176	14.95
2146337	Getting Started with Arduino. 2nd Edition. Provides a thorough introduction to the popular open source electronic prototyping platform.	180	14.95
2208500	Getting Started with Intel Galileo. Learn about the x86 board developed by Intel and Arduino. Explore all its features and power.	194	17.95
141330	Muscle Wires Project Book, 3rd Edition (for more muscle wire & kits, see page 162).	128	19.95
88225	Texas Instruments TTL Databook. Databook that covers Texas Instruments TTL logic, Schottky TT circuits, CMOS logic and VSLI.	2140	39.95
2204138	Raspberry Pi Hacks. Over 60 creative hacks to help turn your Pi into a cool electronics project.	400	24.95
2208489	Beginning NFC: Near Field Communication with Arduino, Android and PhoneGap. Learn how to write NFC applications.	246	29.95
357659	Mondotronic, Muscle Wire Project Book Sample kit includes 20 cm of 075LT and 40 cm of 100LT & 150LT muscle wire.	128	32.95
2204146	Raspberry Pi Cookbook. Over 200 recipes for running Linux, programming with Python and hooking up sensors.	414	39.95
2208497	Make: AVR programming. Learn to write software for hardware and build projects like Cylon Eyes, AM radio and more.	472	39.95
2168384	Arduino Cookbook (2nd edition). With more than 200 tips on building, programming and enhancing a wide variety of prototypes.	726	44.95
2181440	ARRL Antenna Book (22nd edition). With updated, new content and projects including mobile antennas, building towers and more.	936	49.95

Computer

DIY Spider Robot	**Tyrannosaurus**
2190717	242923
Construction Robot	**Mini Robot**
358272	2150619
Electronic Robot	**Running Micro Bug**
2170273	200328
Crawling Micro Bug	**Relay Card**
200336	239476
Line Tracing Robot	**RFID Proximity Card**
2200081	2123936
Titan Tank	**Terrain Tracked Robot**
2128374	2128331
SnackMan Bundle	**Robotic Arm**
2190231	2095023
Mr. General	**3pi Robot**
2150580	2136403

JAMECO KitPro — Open Source Arduino Compatible 8-Digit LED Clock

NEW — MARKED IN PINK

Not seen for a decade, we've updated a classic kit with modern components. The clock is based on a DS1307 Real Time Clock (RTC) and has a battery backup to keep time in the event power is lost. A header is provided for future upgrade to a more accurate DS3231 RTC. With large prototyping space, you can easily add your own features. Functions include 12 hour and 24 hour time display, 12 hour with AM/PM, full date, and a stop watch function. USB/Serial device required to program (not included, use P/N 2152340, pg 159).

Part No.	Cross Ref. No.	Description	Dimensions (in.)	Price
2217078	JE270	Red 8-digit, 7-segment with dual LED colon. Hackable	6.0 x 3.75 x 2.0	$79.95

velleman — 3D Printer Pen

Extrude heated 1.75mm filament and draw your own 3D structures.

★ **Web Code: TDP**

- 26 watts, 350°F – 482°F
- Uses 1.75mm PLA/ABS
- Adjustable print speed and temp
- Standby function after 5 mins idle
- Size: 7.3"L x 1.7"W x 1.2"H

NEW — MARKED IN PINK

Includes: (3) 5m ABS filament samples and 12V/3A power supply

Part No.	Description	Price
2217019	3D printer pen	$149.95

velleman — 3D Printer Kit

Print objects using 3mm PLA or ABS plastic filament wire.

- Technology: FFF (Fused Filament Fabrication) for PLA and ABS
- Maximum print speed: 150 to 300 mm/s (depending on the object to be printed)
- Typical printing speed: 120 mm/s
- Printable area dimensions: 7.87"W x 7.87"D x 7.87"H
- Software: Repetier v0.84 and up, www.repetier.com
- Size: 19.7"W x 16.5"D x 24.4"H • Wt.: 19.84 lbs.

★ **Web Code: TDP**

Includes: 5 meter PLA black sample

Part No.	Description	Price
2184561	DIY 3D printer kit, assembly required	$649.95
2184667	1kg spool, black (3mm PLA filament)	36.95
2184739	1kg spool, white (3mm PLA filament)	36.95

velleman / Pololu — Electronic Kits

NEW — MARKED IN PINK   ★ **Web Code: ERK**

Robotic and Computer Control Kits

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2190717	ROB0103	DIY Spider Robot using your controller (Romeo recommended)	70	BEG	6.0 x 4.0 x 3.0	0.6	$8.95	$7.95
242923	21-601	Mechanical Wooden Tyrannosaurus kit	116	BEG	1.5 x 3 x 6.5	0.9	14.95	13.49
2111960	535-USB	USB Arm controller for P/N 2095023	1	BEG	5.5 X 1.8 X 7.5	0.3	34.95	29.95
358272	70162	Design a robot w/ this RC Robot Construction set! Lift, scoop and drop all kinds of stuff.	144	BEG	6.5 x 3.5 x 3	1.0	46.95	42.95
2150619	RS014-USB	2-in-1 Mini Robots include IR compound eye, 4 mini servos and universal remote. Tools included	22	BEG	3 x 3 x 5	1.0	59.95	54.95
2196713	650-0124	littleBits KORG Synth kit. DIY music maker with connectable bits. No soldering!	15	BEG	—	1.4	159.95	—
2170273	PACE ROBOT	Personal & Classroom Electronic Robot. Grades 4-12	200+	INT	8.0 x 8.0 x 4.0	6.2	299.95	274.95
200328	MK127	Light-Following Running Micro Bug kit	26	INT	4.0 x 2.4	0.2	9.95	9.49
200336	MK129	Light-Seeking Crawling Micro Bug kit	29	INT	4.0 x 2.4	0.2	13.95	12.49
239476	K2633	Relay Card kit (req. pwr supply P/N 133891 pg 93)	29	INT	3.0 x 2.7	0.4	14.95	13.95
386708	21-880	Line Tracking Robot Mouse (solder required)	130	INT	3 x 3 x 3	0.9	22.95	20.95
2130600	K8015	Multi-function Relay Switch with 14 different functions and pushbutton control	37	INT	3.4 x 1.5 x 1.0	0.5	23.95	21.95
2200081	93559	PC Programmable Line Tracing Robot via drag/drop commands	42	BEG	4.9 x 3.5 x 2.2	0.6	29.95	28.49
386708	21-880	Line Tracking Robot Mouse (solder required)	130	INT	3 x 3 x 3	0.9	22.95	20.95
358352	75020	Line Tracing Snail Robot kit	40	INT	6.9"H	2.0	36.95	32.95
2123936	MK-179	RFID Proximity Card Reader kit, include 2 tags EM4100 compatible (more tags on pg 155)	52	INT	2.6 x 2.4 x 0.8	0.5	29.95	26.95
2128374	21-531N	Titan Tank kit, IR remote control, 4-ch selection for battle, 4xAA & 4xAAA batteries required	121	INT	6.5 x 6.5 x 3.6	1.5	34.95	32.95
2128331	OWI-536	3-In-1 All Terrain Tracked Robot; transform to a forklift, rover or gripper; wired remote control	120+	INT	—	2.2	45.95	42.95
2190231	KIT-EISB	Parts bundle for SnackMan candy machine hack adds WiFi control via Electric Imp module. Candy machine not included.	5	INT	—	0.1	44.95	—
2095023	OWI-535	Robotic Arm. 5 DoF, base rotates 270°. Lifts 100g. 12.6" reach	87	INT	6.3 x 15 x 9	2.5	49.95	46.95
2150580	RS002	Mr. General mobile robot platform features compound IR eye, 2 servos for pan/tilt and 2 cont. rotation servos. MCU & batteries not included	206	INT	7.5 x 4.8 x 4	1.5	59.95	54.95
2136403	975	3pi Robot with 2 gear motors, 5 reflectance sensors, LCD, buzzer, connected to an ATmega328 microcontroller	1	INT	3.7" Dia.	0.18	99.95	94.95

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Edu & Hobby

3 LEVELS OF SAVINGS
NAME BRANDS | HOUSE BRANDS | SPECIAL BUY

JAMECO KitPro | velleman | **Electronic Kits** (Continued) | Evil Mad Science | NEW MARKED IN PINK

Robotic and Computer Control Kits (*Continued*)

★ **Web Code: ERK**

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2140285	J-BOT	Build your very own customizable robot with ultrasonic sensors, 4WD platform, breadboard, MotorShield kit and much more	22	INT	9.5 x 7 x 8	3.6	$144.95	$134.95
2157124	J-Bot v2	Build a customizable mobile robot with ultrasonic sensor, 4WD chassis, breadboard and Romeo microcontroller w/ built-in motor control	17	INT	9.5 x 7 x 8	3.8	144.95	139.95
2157116	258	Egg-Bot Deluxe is an open-source robotic arm that can draw on spherical shapes like eggs, ping-pong balls, golf balls and christmas ornaments up to 4.25" diameter. No soldering/programming required. PC/Mac required to create designs	126	INT	11 x 7.5 x 6	2.8	199.95	174.95
386610	21-886	Terrain Escape Robot kit with infrared emitting diode and receiver module (4 x AAA required)	86	EXP	5 x 5 x 5	0.9	22.95	19.95
2123952	K8090	8-ch. USB Relay Card. Up to 16A/relay, can use with iPhone application. Assembly required	124	EXP	6.3 x 4.2 x 1.2	1.0	69.95	64.95
2190101	RS032	Playful Puppy Quadruped Robot w/ 10 servo motors. Arduino compatible. (7.4V @ 2.2Ah LiPo recommended P/N 2167787, see Web)	85+	EXP	7 x 4.5 x 5	1.3	149.95	139.95

Audio Transmitters, Amplifier, Sound Generator and Detection Kits

★ **Web Code: AAK**

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2136956	MK104	Electronic Cricket kit. Activated by darkness; effect, tone and light sensitivity adjustable	25	BEG	2.2 x 1.6 x 1.0	0.11	$7.95	$7.49
2131012	MK120	Infrared Light Barrier kit with 85dB audible alarm and visible LED alert	46	BEG	2.2 x 1.6/3.9 x 2.0	0.18	9.95	8.95
2130984	MK136	Super Stereo Ear audio amplifier boosts sound up to 50 times louder	35	BEG	2.4 x 2.1 x 1.7	0.15	9.95	8.95
2130731	MK171	Voice Changer kit. Add effects to your voice with robotic, vibrato, high-low effects and more	36	BEG	3.0 x 1.8	0.11	12.95	11.95
2130870	MK113	Siren Sound Generator. 4 different sounds with pitch adj. (9V required)	17	BEG	2.4 x 1.6	0.1	12.95	11.49
2123944	MK-182	Digital Echo Chamber kit. Echo effect, line-in & out, output 8Ω, 500mW (9V required)	63	BEG	3.35 x 2.76 x 0.78	0.5	24.95	21.95
2151671	VM144	Telephone ring detector with relay output. Pre-assembled. (12V/0.1A supply required)	1	BEG	3.2 x 2.2 x 1.4	0.3	39.95	36.95
285624	RS-TGI	Build your own Telegraph. Send an SOS!	9	BEG	3.0 x 3.0 x 3.3	1.3	49.95	47.49
2135751	AP-MP3	MP3 playback module. MP3/PCM/WAV supports up to 32GB micro SD	1	BEG	2.5 x 2.0	0.2	99.95	94.95
147571	MK103	Voice Activated kit. Requires 8-15VDC Power Supply or 9V battery, sound activates 4 flashing LEDs	33	INT	2.5 x 1.6 x 1.4	0.1	6.95	6.25
662670	EBST-11	Audio Stereo Amplifier kit. 1 watt (9V required)	32	INT	2.8 x 2.3	0.2	9.95	8.95
117612	K1803	Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply)	17	INT	1.2 x 1.8	0.3	10.95	9.95
151204	AA-1	Super Snooper Big Ear Audio Amplifier kit (9V req.)	17	INT	1.8 x 1.0 x 0.6	0.1	10.95	9.95
2196588	MK190	2x5 watt amplifier: 3.5mm stereo input jack, screw terminal output	25	BEG	2.6 x 2.1 x 1.0	0.2	16.95	15.49
127255	K4001	7-Watt Amplifier kit. Requires 15VDC @ 500mA power supply, music output power: 7 watts, 4Ω	22	INT	2.2 x 1.4	0.3	15.95	14.95
211772	MK118	FM Radio kit, 88-108MHz (12VDC, 2.1mm req.)	65	INT	4.8 x 3.3	0.3	24.95	23.49
151239	FMST-100	FM Stereo Transmitter Mini kit, 9V battery	37	INT	2.7 x 2.0	0.2	29.95	26.95
129138	K4003	30W Stereo Pwr Amp. (req. 1x 24VCT @ 2A pwr supplies)	38	INT	2.8 x 2.0	0.7	29.95	26.95
127562	K4401	Sound Generator kit with 10 unique sounds	61	INT	2.8 x 2.8	0.4	29.95	27.95
2130491	K4305	20-LED Stereo VU Meter. -20dB to +3dB, 10-15VDC/0.25A via solder pad	45	INT	1.5 x 2.7 (x2)	0.5	29.95	27.95
2120815	K8098	Audio Analyzer, display EMS/peak power, mean/peak dB, audio spectrum	73	EXP	5 x 2.5 LCD	0.6	66.95	62.95
2120823	K8095	MP3 Player kit, create your own jukebox, sound effects, mp3 and more! SD card operation, Hi-quality VLSi decoder, vol. control, up to 32GB, up to 1024 folders with 16,348 songs each	100	EXP	5.11 x 3.9	0.7	74.95	69.95

J-Bot

2140285

Egg-Bot Deluxe

2157116

Terrain Escape Robot

386610

USB Relay Card

2123952

Playful Puppy

2190101

Electronic Cricket

2136956

IR Light Barrier

2131012

Super Stereo Ear

2130984

Voice Changer

2130731

Siren Sound Generator

2130870

Digital Echo Chamber

2123944

Telephone Ring Detector

2151671

Telegraph

285624

MP3 Playback Module

2135751

2x5 Watt Amplifier

2196588

Stereo Power Amplifier

129138

Sound Generator

127562

LED Stereo VU Meter

2130491

Audio Analyzer

2120815

MP3 Player

2120823

Edu & Hobby

JAMECO KitPro | **velleman** | Electronic Kits (Continued) | **TAGU** | **NEW MARKED IN PINK**

Test and Measurement Kits

★ *Web Code: TMK*

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2136930	MK105	Signal Generator. 1KHz fixed freq. 0-100mVrms pot adj. 9V battery required	30	BEG	2.2 x 1.6	0.1	$8.95	$7.95
662725	EBLOG-300A	Logic Probe kit. 3V-16VDC, detect high, low, pulse signal	14	BEG	4.0"L x 0.75"Dia.	0.1	10.95	9.95
2210360	NFS-01	Make a fabric bend/flex sensor with neoprene, Velostat & conductive thread	9	BEG	4.72 x 0.59	0.1	17.95	—
2210386	NPM-01	Make a piezoresistive pressure sensor with neoprene, Velostat & conductive thread/fabric	6	BEG	1.97 x 1.57	0.1	17.95	—
2175568	EDU06	Oscilloscope Tutor: Learn about AC, DC, sine and square waves, power supply ripple, full and half-wave rectifiers, oscillators and more. O-scope required.	37	BEG	4.6 x 2.9 x 0.9	0.3	29.95	28.49
2181343	M-2666K	Deluxe Digital Multimeter kit. 3½-digit display and AC/DC current up to 20A	135	BEG	7.5 x 3.5 x 1.3	1.8	41.95	39.95
2119662	SL004	Electronics Discovery kit. 16+ projects work with LEDs, switches, buttons, sensors	130	BEG	10 x 6.7 x 3	1.0	49.95	44.95
2210394	UFO-01	UFO detector illuminates blue LEDs and beeps when the magnetic field changes	62	BEG	3"Dia. x 4"H	0.7	49.95	47.95
2210407	UFO-02	UFO detector illuminates red LEDs and beeps when the magnetic field changes	62	BEG	3"Dia. x 4"H	0.7	49.95	47.95
2210415	UFO-03	UFO detector illuminates green LEDs and beeps when the magnetic field changes	62	BEG	3"Dia. x 4"H	0.7	49.95	47.95
129091	K7102	Metal Detector kit. Sensitive within 8cm (req. 9V battery)	22	INT	2.1 x 2.1	0.4	15.95	14.49
20685	JE2206	Function Generator kit. 1-100kHz in 4 ranges	21	INT	4.1 x 1.5	0.1	27.95	24.95
2210159	GCK-01-02	Geiger Counter: GMT-02 tube detects beta & gamma particles	68	INT	3.8 x 3.3	0.4	129.95	119.95
2210440	GCK-01-02-ENC	Geiger Counter enclosure for P/N 2210159. Pre-drilled and decaled	1	—	3.5 x 5.75 x 1.25	0.3	39.95	36.95
2210167	GCK-01-06	Geiger Counter: GMT-06 tube detects beta & gamma particles	68	INT	3.8 x 3.3	0.4	129.95	119.95
2210458	GCK-01-06-ENC	Geiger Counter enclosure for P/N 2210167. Pre-drilled and decaled	1	—	3.5 x 5.75 x 1.25	0.3	39.95	36.95
2210141	GCK-01-01	Geiger Counter: GMT-01 tube detects alpha, beta & gamma particles	67	INT	3.8 x 3.3	0.4	169.95	159.95
2210175	GCK-01-01-ENC	Geiger Counter enclosure for P/N 2210141. Pre-drilled and decaled	1	—	3.5 x 5.75 x 1.25	0.3	39.95	36.95

Power Supply and Motor Kits

★ *Web Code: PSM*

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2115750	34020	Breadboard Vreg kit. 6-18Vin, 5V @ .5A out, 2.1mm jack	12	BEG	2.2 x 0.6	0.1	$7.95	$7.49
2159349	DFR0123	DC-DC boost converter. Input: 3.7-34V, Output: 3.7-34V. 15W max.	1	BEG	1.3 x 1.4	0.1	7.95	7.49
181833	VM-1	DC Voltage Monitor kit with 7 LED display	46	BEG	2.7 x 1.3	0.2	9.95	8.95
2119751	C-8051	Adjustable Gear Motor kit. 4k-14k RPM	22	BEG	4.3 x 4.9	0.2	11.95	11.49
2184229	815	16-channel 12-bit PWM/servo driver with I²C interface. PCA9685. 5V tolerant	7	BEG	2.5 x 1	0.1	16.95	15.95
2210255	SMC-01V2K	Control a servo motor 1:1 via illuminated potentiometer. Servo & 5-9VDC source required	17	BEG	1.86 x 1.86	0.2	19.95	—
2210271	SMC-02K	Control 2 servo motors 1:1 via illuminated potentiometers. Servos & power required	32	BEG	2.65 x 2.3	0.3	39.95	—
2210298	SMC-04V2K	Control 4 servos 1:1 via PC-USB or manual potentiometers. Servos & power required	42	BEG	3.2 x 2.9	0.7	59.95	—
117621	K1823	1.5A @ 1.5-35VDC Power Supply kit	12	INT	2.1 x 2.1	0.3	13.95	11.95
2137166	K8042	Symmetric 1A Power Supply kit. Output of 1.2-18VDC depends on AC transformer (not incl.) see web	46	INT	3.1 x 2 x 0.9	0.5	16.95	15.95
20626	JE215	Dual Adjust Regulated Power Supply kit, 5-15VDC	48	INT	5.1 x 3.5 x 2.0	2.1	29.95	26.95
127829	GMC-1102	Motor Speed Control kit. Powers up to 5A @ 100VDC	35	INT	3.6 x 2.3 x 1.2	0.3	39.95	36.95
358248	70097	Twin Motor Gearbox kit. 58:1 & 203:1	61	EXP	3.0 x 4.0	0.3	11.95	10.95
120539	K8004	DC Pulse Width kit. Proportional DC to PWM	40	EXP	3.3 x 1.9 x 1.8	0.5	23.95	21.95

Logic Probe

662725

Electronics Discovery

2119662

Fabric Bend/Flex Sensor

2210360

Piezoresistive Sensor

2210386

Oscilloscope Tutor

2175568

UFO Detector

2210394/2210407/2210415

Metal Detector

129091

Geiger Counter

2210159

Geiger Counter Enclosure

2210440/2210458

Geiger Counter

2210167

Geiger Counter

2210141

Breadboard Voltage Regulator

2115750

DC-DC Boost Converter

2159349

PWM/Servo Driver

2184229

Servo Motor Controller

2210255

Dual Servo Motor Controller

2210271

Quad Servo Motor Controller

2210298

Dual Adjust Power Supply

20626

Symmetric Power Supply Kit

2137166

Twin Motor Gearbox

358248

Edu & Hobby

★ *For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

JAMECO KitPro **velleman** ## Electronic Kits (Continued)

NEW MARKED IN PINK

★ Web Code: DLK

Distance and Light Kits

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2131207	MK135	Electronic Decision Maker kit. Rapidly flashes lights untill it slowly stops at one	19	BEG	2.2 x 1.2 x 1.4	0.1	$6.95	$6.25
2136972	MK109	Electronic Dice simulates the roll of a die and generates a random number	13	BEG	2.4 x 1.7	0.1	8.95	7.95
147635	MK100	Flashing Christmas Tree kit. 16 LEDs, 9V battary req.	30	BEG	4.0 x 2.4 x 1.0	0.1	7.95	7.49
2136964	MK131	4-way Traffic Light kit. 12 LEDs with realistic operating and adjustable delay	63	BEG	2.0 X 1.4 X 4.5	0.2	8.95	7.95
2136999	MK112	Electronic Brain Game kit just like Simon Says. Visible/audible modes. 4 skill levels. 3xAA not included.	28	BEG	2.0 x 2.6	0.2	9.95	8.95
2130933	MK147	Dual white LED stroboscope creates a powerful flash effect. Speed adjustable 1-60 flashes/sec. 9V battery not included.	21	BEG	2.2 x 1.3 x 1.6	0.1	9.95	8.95
236081	MK145	Halloween Pumpkin with 25 yellow LEDs	71	BEG	2.48 x 2.24	0.2	13.95	12.95
2130802	MK150	Shaking Dice kit. Just give it a shake and the LEDs will automatically light a value	23	BEG	3.0 x 1.8	0.2	13.95	12.49
157964	LED1007	Infrared Illuminator kit. 13.2VDC, 8' dia. @ 24'	41	BEG	2" Dia.	0.1	13.95	12.95
2136534	091	Larson Scanner kit. Create the scanning LED effect from Battlestar Galactica or Night Rider	22	BEG	5.0 x 1.5 x 1.0	0.1	13.95	11.95
2136542	080	Deluxe Menorah kit. (9) 10mm yellow LEDs, press button to light another candle, soldering required	28	BEG	5.0 x 1.5 x 4.25	0.1	15.95	13.25
2123928	MK149	Love Tester kit. 10-LED "love level" indicator	44	BEG	4.1 x 3.1 x 1.0	0.2	16.95	15.95
2128286	MK172	60 LED Sound Star. "VU-meter" flash to audio	113	BEG	4.2 x 4.4 x 1.4	0.1	19.95	18.95
2137191	MK119	Game of Roulette. 37 LEDs, a spinning sound and "winner" tune for each color. Pushbutton operation	66	BEG	3.6 X 1.3	0.2	19.95	18.95
211764	MK116	Santa Sleigh and Reindeer kit, 9V battery required	201	BEG	5.7 x 3.2	0.1	24.95	22.49
2128278	MK170	60 LED Star, 24 flashing patterns, soldering req.	94	BEG	4.1 x 4.3 x 1.4	0.1	27.95	26.95
147580	MK102	Flashing LED kit. 2 red 5mm LEDs, 9V battary req.	23	INT	1.3 x 1.4 x 0.6	0.1	5.95	5.49
211781	MK130	3D Flashing Christmas Tree kit. 16 LEDs	36	INT	3.1 x 3.5 x 4.0	0.1	10.95	9.95
147555	MK101	Flashing LED Sweetheart kit. Flashes 25 T1 (3mm) red LEDs, 9V battery required	46	INT	1.3 x 2.3 x 1.3	0.1	9.95	8.95
2150694	MK183	USB Surface Mount Christmas Tree kit. 7 bright SMD LEDs	27	INT	2.48 x 2.24	0.07	14.95	13.49
200310	MK124	Scrolling Message kit. 16 characters	76	INT	3.5 x 2.6 x 1.8	0.2	19.95	17.95
177092	IR-10	Infrared Transmitter & Receiver kit, 9V battery req.	26	INT	1.0 x 0.8	0.1	19.95	17.95
147643	K4304	10-LED Mono VU Meter kit	36	INT	2.7 x 1.4	0.3	23.95	19.95
236072	MK117	Deluxe Christmas Tree kit. 134 LEDs	208	INT	3.2 x 5.6	0.2	26.95	24.95
129120	K3502	Parking Radar kit. Adjustable 2"-59"	55	INT	4.9 x 1.9	0.5	39.95	37.95
2136551	800820	Meggy Jr. RGB. Develop a handheld pixel-scale video game, 8x8 RGB matrix, includes one pre-programmed game, reprogrammable	80	INT	6.0 x 1.5 x 3.5	0.9	74.95	69.95
2186822	K8018B	5x5x5 Blue LED Cube. Connet to your PC (USB) and create your own effects w/ free software	170	EXP	4.3 X 4.3 X 5.9	0.6	104.95	99.95

Alternative Energy – No Batteries Required

★ Web Code: NRG

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions	Wt.	Pricing 1	Pricing 5
2150424	DG-S001	Solar Man Walking Robot	18	BEG	1.8 x 2.2 x 3.5	0.2	$9.95	$8.95
2112006	MSK670	Frightened Grasshopper kit. Solar powered	7	BEG	1.75 x 1.0 x 0.6	0.1	10.95	9.95
2112014	OWI-MSK671	Super Solar Racing Car for ages 10 and up. Assembly is a snap. 1.1VDC panel & motor	11	BEG	2.1 x 1.0 x 0.6	0.2	10.95	9.95
2128340	OWI-750	Salt Water Fuel Cell Car. Magnesium metal sheet (3 incl.), provides 5-7 hrs continuous play	20	BEG	3.0 x 1.6 x 0.7	0.5	12.95	11.95
2097521	MSK610	6-in-1 Educational Solar kit. Create a solar car, airboat, windmill & more. No tools required	33	BEG	4.75 x 2.4 x 3.4	0.5	17.95	16.95
2112090	MSK679	Solar-Powered Solar System kit. Build, paint and watch the solar system come to life using solar energy	70	BEG	4.4 x 3.7 x 3.2	0.5	17.95	15.95
2111986	MSK614	T3 Transforming Solar Robot. Create a solar tank, scorpion or robot	71	BEG	9.8"Dia. x 3.6"H	0.5	16.95	15.95
2144382	EDU02	Solar Energy Experiment kit. 10 projects	13+	BEG	3.15 x 2.36	0.5	27.95	24.95

Electronic Decision Maker
2131207

Electronic Dice
2136972

4-Way Traffic Light
2136964

Brain Game
2136999

LED Stroboscope
2130933

Larson Scanner
2136534

Love Tester Kit
2123928

Game of Roulette
2137191

LED Star Kit
2128278

LED Sweetheart Kit
147555

Mono VU Meter
147643

Parking Radar
129120

Meggy Jr. RGB
2136551

5x5x5 LED Cube
2186822

Solar Grasshopper
2112006

Super Solar Racing Car
2112014

Salt Water Fuel Cell Car
2128340

Solar-Powered Solar System
2112090

Transforming Solar Robot
2111986

Solar Energy Kit
2144382

Edu & Hobby

Electronic Kits (Continued)

NEW MARKED IN PINK

Time and Clock Kits

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
2170839	264	Real Time Clock Breakout Board – includes PCB, battery and header	8	BEG	0.95 x 1.2 x 0.2	0.02	$9.95	$9.49
2157079	MTRTC001	ChronoDot Real Time Clock module (DS3231SN)	4	BEG	1.2"Dia.	0.4	15.95	14.95
2187323	MK188	1 second to 60 hour pulse-pause timer. Relay: 16A max. Use 12-24VDC via terminals	30	BEG	3.2 x 1.8 x 0.9	0.2	19.95	18.95
2130520	VM141	Start-Stop Timer kit with a wide timing range, easy time setting, LED animation during operation and on-board start-stop buttons	40	BEG	2.8 x 1.8 x 0.8	0.2	29.95	27.95
2207831	ANGCLKV1	Angular Clock uses analog panel meters to display time. Clear acrylic enclosure	48	BEG	7.0 x 2.5 x 2.5	0.8	59.95	54.95
2150601	TK001	LCD Clock Training kit displays messages and builds an alarm clock. Comes w/ all components including ATMega8A pre-programmed microcontroller	24	BEG	7.3 x 4 x 1.5	1.2	69.95	64.95
2184237	TK1106	Timesquare DIY Wristwatch kit with red 8x8 display matrix and silicone watch band. Hackable!	20	INT	1.5 x 1.5	0.2	34.95	31.95
2136569	950+966	Desk/mantle LED shadow clock with 12 red, 30 green and 30 blue LEDs to mark hours, minutes and seconds	147	INT	8.8 x 2.3 x 4.5	1.1	79.95	74.95
2157087	280	Alpha Clock Five kit. Alphanumeric LED alarm clock with Chronodot RTC module, 2.3" tall digits and 12/24 hour modes	103	INT	9.4 x 2.8 x 3.8	2.2	144.95	134.95

Miscellaneous

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing 1	Pricing 5
358310	70098	Universal plate set for P/N 358299 (below)	25	BEG	2.4 x 6.3	0.1	$7.95	$6.95
358299	70100	Tank Track and Wheel set. 3 track lengths	40	BEG	—	0.5	9.95	8.95
2119734	C-9701	20 second voice recorder, assembled, 1 msg.	1	BEG	1.4 x 0.9 x 0.5	0.1	12.95	11.95
2161617	SP-1A	Learn to Solder Flashing Siren kit. Same as P/N 2124218 (below), w/o 25W iron and wire cutters	23	BEG	4.9 x 2.5	0.3	10.95	9.95
2124218	MKEL4	The Learn to Solder Flashing Siren kit teaches you the basics of soldering & includes 25W iron, wire cutters and solder. 9V battery not included	25	BEG	4.9 x 2.5	0.8	18.95	17.95
2124200	FO-30K	This kit teaches the fundamentals of fiber optics. You can transmit your voice or a 1kHz signal through the 3 ft. fiber optic cable	56	BEG	Rx: 1.3 x 4 x 1 Tx: 1.3 x 4 x 1	0.4	21.95	20.95
2214483	SM200K	Learn and practice soldering SMT with the Surface Mount Technology kit	38	BEG	4.5 x 3.0	0.3	21.95	19.95
2192333	OWI-MSK615	14-in-1 Educational Solar Robot. Ages 10 and older	40+	BEG	—	1.2	31.95	29.95
2168481	5060322 452104	Glowing Paper House kit, with conductive ink pen P/N 2168464 photoresistors, LEDs, transistors and batteries.	17	BEG	3.0 x 3.0 x 3.0	0.5	29.95	28.95
2143865	ROV5-1	Rover 5 Tracked Chassis. Height adjustable by 1.5" and has max speed of 10 in/sec. 87:1 gears.	5	BEG	9.5 x 9 x 3	2.2	49.95	44.95
285595	RS-LBI	Build your own light bulb, Edison style	11	BEG	6.0 3.0 x 7.5	1.2	54.95	49.95
2190928	KIT0030	Laser Keyboard v2: Project a QWERTY keyboard for Windows/Mac. 3D printed frame	22	BEG	2.2 x 1.6 x 3.9	0.8	59.95	55.95
2109747	29140	Introduction to sensors includes PING ultrasonic, 2-axis accelerometer, color sensor and PIR motion sensor	4	BEG	—	0.1	84.95	79.95
2161609	MX909	500-in-1 Electronic Projects Lab kit. Includes user's manual & detailed instructions. 6xAA batteries not included	200	BEG	16 x 24 x 4	11	259.95	249.95
2114520	70108	Tracked Vehicle Chassis kit. 2 gear ratios, 58/203:1	57	INT	2.8 x 2.4 x 1	0.6	19.95	18.95
2114546	70168	Double Gearbox, 4-speed, independent left/right	116	EXP	2.8 x 2.4 x 0.9	0.3	12.95	11.95
2146572	VM110N	Control your electronics from your computer w/ this USB Interface, 7 inputs and 10 outputs	1	EXP	5.7 x 3 x 0.8	0.6	89.95	79.95

Real Time Clock Board

2170839

Real Time Clock

2157079

Angular Clock

2207831

LCD Clock Training

2150601

LED Wristwatch

2184237

Bulb Dial Clock

2136569

LED Alarm Clock

2157087

Voice Recorder

2119734

Solder Flashing Siren

2161617

Fiber Optics

2124200

SMT Technology Kit

2214483

14-in-1 Solar Robot

2192333

Tracked Chassis

2143865

Build Light Bulb

285595

Laser Keyboard

2190928

Introduction to Sensors

2109747

Electronic Projects Lab

2161609

Tracked Vehicle Chassis

2114520

Double Gearbox

2114546

USB Interface

2146572

Edu & Hobby

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PARALLAX — Kits and Modules

Parallax provides the electronics industry and hobbyists with products that are technically innovative, unique and economical. Parallax designs and manufactures microcontrollers and development software, SX chips and programmers/debuggers, Propeller chips and tools, project boards, robotics kits, educational tools and sensors. Not sure where to begin? Try a starter kit to familiarize yourself with the BASIC Stamp or Propeller microcontroller.

Kits, Protoboards and Development Boards – BASIC Stamp Series

★ Web Code: MBS

Part No.	Mfr. Part No.	Description	1	5
661116	27297	StampWorks Experiment kit, 35 projects based on the BASIC Stamp, includes Parallax Professional Development Board	$289.95	$264.95
2134871	32225	Understanding Signals w/ the PropScope, USB oscilloscope and test components. Learn to generate, view and measure a variety of wave forms. BOE & BASIC Stamp 2 required	229.95	219.95
387997	28832	USB Boe-Bot full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects	169.95	149.95
282933	28132	Serial Boe-Bot full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects	169.95	149.95
387971	27807	BS2 Educational Starter kit, USB version, includes Board of Education, BASIC Stamp 2 module & guide to complete over 40 activities	159.95	149.95
2109165	28803	Board of Education full kit, USB version, includes carrier board, BASIC Stamp 2 module, designed for those already familiar with programming Stamp modules	99.95	89.95
2109202	90005	BASIC Stamp Activity kit, learn electronics and programming, includes What's a Microcontroller? guide, components for over 40 hands-on activities, USB to serial adapter and homework board w/ BASIC Stamp 2 MCU	79.95	74.95

661116   2134871   387997

282933   387971   2109165

Kits, Protoboards and Development Boards – Propeller Series

★ Web Code: MBS

Part No.	Mfr. Part No.	Description	1	5
2191998	32500	ActivityBot Robot kit teaches programming the multicore Propeller in C with easy to follow tutorials. High speed servos with optical encoders, PING sensor, mini audio jack & XBee header. No soldering required.	$199.95	$189.95
2007126	32111	Propeller Professional Development Board, 40-pin DIP socket for P8X32A-D40, variety of LEDs, and buttons and typical devices and circuitry are built in for rapid project development USB interface	159.95	154.95
2151494	40000	P8X32A Propeller QuickStart Board. A great way to familiarize yourself with the power multi-core Propeller chip. 64KB EEPROM, 8 blue LEDs, 8 resistive-touch buttons, 32 I/O, USB powerd. Open hardware design	34.95	32.95

2109202   2191998   2007126

Sensors, Modules and Accessories

For more Sensors, see pg 74-75   ★ Web Code: PXS

Part No.	Mfr. Part No.	Description	1	5
2007185	28028	Sensor Sampler kit includes accelerometer modules, humidity/temp, flexiforce, PING ultrasonic, proximity (PIR), ColorPal, piezo film vibra tab, and QTI sensors	$174.95	$169.95
2111935	32213	X-band motion detector. Detection from 8-30ft. 10.525 GHz, 4-pin SIP interface, 5VDC	39.95	36.95
2150230	29174	Altimeter sensor module with SPI & I²C bus interface, 24-bit barometric pressure and temperature output	29.95	26.95
2150221	27911	3-axis gyroscope module w/ embedded temperature sensor. I²C/SPI, 2.7-6.5VDC	29.95	26.95
2150248	29133	3-axis compass module, HMC5883L, ±8 gauss, 2.7-6.5V, I²C raw digital output @ 160Hz	29.95	28.49
282870	28017	2-axis Accelerometer, measures ±3g on each axis, simple pulse output of g-force for each axis, 6-pin DIP module, analog output for temperature	29.95	26.95
2109667	28526	3-axis accelerometer, digital output, SPI or I²C, sensitive select ±2g/±4g/±8g	29.95	26.95
282861	28015	Ping Ultrasonic Range/Distance Finder, 0.5" – 10 ft., 5VDC, 3-pin header	29.95	26.95
2109413	570-28015	PING Mounting Bracket kit, includes Parallax standard servo, use w/ P/N 282861	26.95	24.95
2127081	28380	ColorPAL color/light sensor, detects a full range of colors and outputs data as RGB components	23.95	21.95
2109245	28031	USB to Serial (RS-232) Adapter, DB9 male socket, includes USB-A to mini-B cable, USB 1.1 and 2.0 compatible	19.95	17.95
2109456	28030	USB to serial (RS-232) adapter, DB9 male & USB mini-B port, use cable P/N 673694	16.95	15.95
2082935	32313	SD card adapter, SPI communication. Uses SMT components. Soldering required	15.95	14.95
2150256	28995	Sharp IR distance sensor GP2Y0A21YK0F, 10-80cm, 5V operation, 3-pin JST male header	15.95	14.49
2111901	29132	Sound impact sensor detects sound from up to 3m away, 3-pin SIP, 5V, digital output	12.95	11.95
2205018	28032	Wide angle PIR sensor, 180°, range up to 30 ft., 3-6VDC	12.95	11.95
2082927	555-28027	PIR Sensor kit, single bit high/low output, detection range up to 20 ft.	12.95	11.49
2082901	27920	HS1101 Humidity Sensor, 5VDC to 10VDC, 0.25"x0.40" Dia., -40°F to 212°F	9.95	9.49
2082855	27800	Modular 2-axis joystick, dual 10k pot with common ground, 1.64" x 1.2" x 1.1"	8.95	7.95
2109691	350-00014	Infrared receiver, 38kHz carrier freq. found in Boe-Bot and SumoBot kits	5.95	5.39
2109624	28109	Boe-Bot/SumoBot wheel & tire set, 1 wheel & 2 rubber band tires	5.95	5.39
2151451	604-00085	TSL237 light to frequency converter, 3-pin SIP, 320 to 1050nm, 2.7-5.5VDC	3.95	3.75
2109763	605-00004	Piezo film vibration sensor, use as flexible switch, freq. responce device	2.95	2.69
2129772	GP1UM287RK	56.8kHz IR detectiing unit for remote control (Sharp), anti EMI noise type	1.49	1.25
2211047	GP1UD271XK0F	38kHz 1R detecting unit for remote control (Sharp), low dissipation	.95	.85

2151494   2007185   2111935

2150230   2150221   282870

2109667   282861   2109413

2127081   2109245   2109456   2082935

2082927   2205018   2082855

2082901   2109691   2109624

2151451   2109763   2129772

Edu & Hobby

RFID, Wireless Interface Devices & Embedded Neworking Solutions

NEW MARKED IN PINK

Use these modules for a variety of hobbyist and commercial applications, including data storage, access control, user identification, robotics navigation, inventory tracking, payment systems, car immobilization or security systems.

RFID Read/Write Modules and Tags
PARALLAX

★ **Web Code: RAD**

Part No.	Mfr. Part No.	Description	1	5
2109851	28161	RFID passive tag, blue eye key fob, EM-4100 family	$2.95	$2.75
2109739	28141	RFID passive tag, 54mm x 85mm rectangle, EM-4100 family	3.95	3.59
2123522	28441	RFID read/write module card, 2.1" x 3.3", EM4x50 family compatible only with read/write module (P/N 2123514, below)	3.95	3.49
2123514	28440	RFID read/write module, serial, use card 2123522, supports passive tags	59.95	53.95
2007169	32390	RFID Reader kit, serial card reader, includes 4 different passive tags	59.95	53.95
2190688	FIT0313	NFC MIFARE® Classic 1K sticker: 13.56MHz, 4 byte unique ID, 1.57" x 1.0"	1.95	1.75
2190670	FIT0315	NFC round sticker: 13.56MHz, 1K storage, 4 byte unique ID, 1" diameter	1.95	1.75
2190872	DFR0231	NFC module for Arduino. PN532 controller, UART interface, supports ISO1443A/MIFARE® and ISO 14443B in R/W mode only	21.95	19.95

2109739   2109851   2123514

2007169   2190688   2190872

2113412   2159331   2123611

Wireless Interface Devices
PARALLAX   DFROBOT

★ **Web Code: WID**

Part No.	Mfr. Part No.	Description	1	5
2160753	F301-SGP-D024-01	10-position singe row female header w/ 2mm pin spacing, mates w/ Xbee chips	$.99	$.89
2113412	32403	Xbee adapter board raw PCB with 40-pin single row header and 2mm sockets	6.95	6.25
2159331	TEL0002	USB Bluetooth v2.0 dongle, PC/MAC compatible, 33' range max. upto 3 Mbps	4.95	4.49
2123611	32401	Xbee adapter board, 3.3/5V, Vreg & Logic converter included	21.95	19.95
2159285	DFR0050	XBee USB adapter: supports X-CTU and can be used as USB-TTL adapter, 5V	22.95	20.95
2129326	A000021	Xbee/Zigbee Shield for Arduino, communicate wirelessly using an Arduino board up to 300 feet outdoors	22.95	20.95
2113375	32404	Xbee PCB antenna, 1mW, 2.4GHz, 300' line of sight, 802.15.4 network	29.95	26.95
2113421	32400	Xbee adapter board, USB interface, PCB mount, 0.1" spacing, soldering required	34.95	31.95
2123581	32409	Xbee, zigbee series 2, 1.25mW, wire antenna, <400 ft. line of sight range	34.95	31.95
2144438	TEL0023	Bluetooth Bee in XBEE footprint, 30m max range, CSR BC417143, v2.0+EDR, 2.4-2.48GHz	29.95	26.95
2144446	TEL0026	Bluetooth module, 3.5-8V. v2+EDR, 2.4-2.48GHz, 30m max range, can be paired	32.95	29.95
2109384	27982	433MHz RF Transceiver module, 1200-9600bps transfer rate, 250 ft. line of sight range	49.95	44.95
2213341	TEL0005	APC220 Radio Communication module: 0.6mi line of sight @ 9600bps, UART/TTL, GFSK	54.95	49.49
2113391	32406	Xbee chip antenna, 60mW, 2.4GHz, <1 mile range line of sight, 802.15.4	49.95	44.95
2123590	32408	Xbee, zigbee series 2 pro, 63mW, wire antenna, <2 mile line of sight range	44.95	39.95
2171225	32440	XBee Wireless Pack: (2) Series 1 802.15.4 modules, (1) USB adapter, (1) 5V/3.3V adapter	99.95	89.95
2185301	1507	Tracking Key Pro Passive GPS Tracker, Flash memory, logs detailed travel activities every second	119.95	—

2129326   2113375   2113421

2123581   2144446   2109384

2213341   2113391   2171225

Embedded Networking Solutions
WIZnet   electric imp

★ **Web Code: WHZ**

Part No.	Mfr. Part No.	Description	1	5
2189636	APRIL	Electric Imp Breakout Brd, SD card socket for use w/ WiFi card P/N 2189610, 3.3V input	$13.95	$12.49
2189610	IMP001-US-R-ENG	Electric Imp - Imp Card, WiFi module, 6-pin, ~70kB RAM, 6 I/Os, two I²C channels, SD card form	29.95	26.95
2132664	WIZ108SR	RS-422/485 to Ethernet module, connects with serial device directly, 10/100 Ethernet interface	24.95	22.95
2124322	WIZ110SR	Serial to ethernet module, 10/100Mbps ethernet max 230Kbps serial	34.95	31.95
2132779	WIZFI210	Ultra low-power Serial-to-WiFi module brings WiFi connectivity via serial host interface, IEEE 802.11b/g/n compatible, up to 11Mbps	34.95	29.95

2185301   2189636   2189610

2132664   2124322   2132779

BeagleBoard Development Boards and Raspberry Pi Accessories
beagleboard.org

NEW MARKED IN PINK

The line of BeagleBoard development boards are low-cost, fan-less computers that are completely open-source and supported by a very active development community. Pair them up with the add-on capes for even more expandability and functionality.

2207970   2176131   2183963   2185150   2184325

Single-Board Computer Development & Add-On Cape Boards

See Enclosures on page 140

Part No.	Mfr. Part No.	Description	Size (in.)	Price
2207970	BeagleBone Black	Rev. C. w/ Debian OS, 1GHz processor, 512MB DDR3L, USB2.0 port, serial interface header, microHDMI port, on-board 4GB flash, 3D accelerator	3.4 x 2.1	$69.95
2176131	BeagleBone	Rev. A6. 720MHz processor, 256MB DDR2 RAM, USB2.0 port, on-board USB-to-serial/JTAG, 3.3V I/O expansion headers, 2GB microSD card	3.4 x 2.1	99.95
2183963	BB-BONE-BBBD-01	Breadboard add-on cape with adhesive patterned prototyping area, LEDs, switches, headers and 140-pc. jumper wire kit	3.4 x 2.1	39.95

Raspberry Pi Accessories

Part No.	Mfr. Part No.	Description	Size (in.)	Price
2185150	862	6" GPIO ribbon cable. 2x13 IDC socket on each end. Pin 1 marked with white stripe	6"L	$4.95
2184325	801	Prototyping Pi Plate Kit. Breadboard & protoboard layout. GPIO/SPI/I²C breakout & edge-mount terminal blocks	3.4 x 2.1	21.95

★*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
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Edu & Hobby

TinyDuino and TinyLily Arduino-Compatible Microcontrollers and Shields

TinyCircuits develops cheap, smart and easy to use sensors based on a shrunk-down Arduino microcontroller. With modules around 1" x 1", you can add LEDs, WiFi, GPS, BT, and even motor control to your project. Use TinyLily for your wearable e-textile projects with all the power of the LilyPad Arduino at 1/12th the size! See compatibility matrix online for MCU/Shield combinations. (Conductive thread is P/N 2144489, pg 159)

2211215

TinyDuino Main Board and Kits

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	10
2211207	ASK1001-R-P1-B	Basic kit: MCU board w/ battery holder, USB/ISP board, TinyShield Proto 1 and mounting kit	0.78 x 0.78	$39.95	$37.95
2211215	ASK1002-R-LG-B	Starter kit: MCU brd w/ battery holder, USB/ISP board, green 16 edge LED shield, Proto 1, 2 & 3, and mounting kit	–	59.95	56.95
2211223	ASM2001-R	Processor board w/o battery holder. ATmega328P, 8 MHz, 5V. Use proto shields for I/O access. USB programmer required to upload (P/N 156)	0.78 x 0.78	19.95	18.95
2211231	ASM2001-R-B	Processor board w/ CR1632 holder. ATmega328P, 8 MHz, 5V. Use proto shields for I/O access. USB programmer required to upload (P/N 156)	0.78 x 0.78	20.95	19.95
2211506	ASH1002	Mounting kit: (4) screws, (4) nuts, (12) spacers. Stack up to 4 TinyDuino boards	–	4.95	4.69

TinyDuino Shields

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	10
2211240	ASD2101-R	USB/ISP programmer board: Required to upload sketches. ICP 6-pin connection available.	0.78 x 0.78	$17.95	$16.95
2211258	ASD2002-R	Proto 1: 2mm spacing, full TinyDuino I/O breakout provides a point you can solder to.	0.78 x 0.78	4.95	4.69
2211266	ASD2003-R	Proto 2: 0.1" spacing, partial TinyDuino I/O breakout, IO0-IO4, AD0-AD5. See Web	0.78 x 0.78	4.95	4.69
2211274	ASD2004-R	Proto 3: 0.1" spacing, partial TinyDuino I/O breakout, IO0-IO9, AD4-AD5. See Web	0.78 x 0.78	4.95	4.69
2211291	ASD2005-R-T	Proto w/ Terminal Blocks (kit): 0.1" spacing, full breakout with reliable screw terminals.	1.36 x 1.2	9.95	9.49
2211303	ASD2005-R-T-I	Proto w/ Terminal Blocks (assembled): 0.1" spacing, full breakout of all I/Os.	1.36 x 1.2	12.95	12.49
2211282	ASD2005-R	Proto w/o Terminal Blocks: 0.1" spacing, full TinyDuino breakout of all I/Os.	1.26 x 1.15	5.49	5.25
2211469	ASD2121-R	WiFi: Ti CC3000 module, 802.11 b/g 2.4 GHz, SPI interface, Active mode: 92mA typ. RX.	0.78 x 1.4	59.95	56.95
2211493	ASD2501-R	GPS: Telit JF2 module, SiRFstar IV, 48-CH, NMEA/OSP, 5V, 1Hz/5Hz. <2.5m accuracy.	0.78 x 1.1	59.95	56.95
2211485	ASD2112-R	Bluetooth LE 4: Bluegiga BLE112, 3.3V/5V, uses D0 & D1 pins. Supports up to 8 connections.	0.78 x 1.14	49.95	46.95
2211418	ASD2301-R	Motor x4: 4x DRV8837 H-bridge, 1.8A max. @ 1.8-11V, 4-CH. Uses pins 2-9 and A3.	0.78 x 0.78	19.95	18.95
2211426	ASD2611-R	Accelerometer: BMA250 3-axis, 1.8V, ±2/4/8/16g, 10-bit resolution. Uses A4 and A5.	0.78 x 0.78	14.95	13.95
2211434	ASD2613-R	Compass: HMC5883L 3-axis, 12-bit ADC, 1° to 2° compass heading accuracy. Uses A4 and A5	0.78 x 0.78	14.95	13.95
2211451	ASD2201-R	MicroSD: Allows a µSD card (not included) to be used, 5V. SPI mode and uses pins 10-13.	0.78 x 0.78	14.95	13.95
2211442	ASD2811-R	Ambient Light Sensor: TAOS TSL2572, dual diode and UV-filter, I²C, 3V/5V. Also I²C breakout.	0.78 x 0.78	14.95	13.95
2211400	ASD2421-R	7-Segment Display: 2 digit, 0.26" high, red, I²C, SX1506 I/O expander. Uses A4 & A5 pins	0.78 x 0.78	19.95	18.95
2211371	ASD2413-R-LR	Matrix LEDs: 54 red SMT LEDs in 6x9 grid, uses 8 I/Os (green & amber colors available online)	0.78 x 0.78	19.95	18.95
2211346	ASD2412-R-LR	Circle Edge LEDs, 21 side mount red LED, uses 6 I/Os (green & amber colors available online)	0.78 x 0.78	14.95	13.95
2211320	ASD2411-R-LA	16 Edge LEDs, side/circular mount amber LEDs. Uses 5 I/O (red & green colors available online)	0.78 x 0.78	13.95	13.25

2211240

2211291

2211451

TinyLily Main Board, Shields and Kits

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	10
2211514	ASK2001	Basic kit: TinyLily MCU board and Mini USB adapter. LilyPad compatible, (8) I/O sewtabs	–	$23.95	$22.95
2211522	ASK2002-R	Starter kit: 2x TinyLily MCU boards, mini USB adapter, 3mm switch, batt. adapter &1206 LEDs (2 ea. amber, green, red)	–	42.95	39.95
2211531	ASM2101	Mini processor: 5V ATmega328P, 8 I/O sewtabs (4 D, 4 A/D). Arduino and LilyPad compatible.	0.55"Dia.	9.95	9.49
2211549	ASL2111	Mini USB Adapter: FTDI USB/serial converter for upload. Resistor jumper for 3.3V/5V. 3.3V default	0.75 x 0.35	14.95	13.95
2211565	ASL1201	Battery adapter: 2-pin JST-PH connector and 2 solder tabs. Connects to TinyLily.	0.63 x 0.39	3.95	3.75
2211573	ASL2001	Motor Board: 1 H-bridge, drive a 1.8A motor @ 1.8-11V/ TI DRV8837 motor driver (H-bridge)	0.39"Dia.	4.95	4.69
2211557	ASL1101	Momentary pushbutton 3mm switch: 2 sewtabs, SPST, NO. Non-corrosive gold finish.	0.28 x 0.16	2.95	2.79
2211602	ASL1001-LG	Green LED 0402, sewable and wearable (red available online, P/N 2211581)	0.26 x 0.1	1.75	1.49
2211611	ASL1002-LR	Red LED 1206 SMT, sewable and wearable (green and amber colors available online)	0.4 x 0.18	1.75	1.49

2211531

Rapid Wireless RF Development & Prototyping

Honey, they shrunk the Arduino…and made it wireless! RFduino is an Arduino compatible, high-performance configurable wireless RF module that allows for fast development and prototyping of projects for the Internet of Things! The powerful RFduino features ARM Cortex M0, 128kB Flash, 2.4GHz transceiver, and Bluetooth 4.0 LE. Shield modules add servo, relay, protoboard, RGB/Button, battery and other capabilities.

Part No.	Mfr. Part No.	Description	Price
2209887	RFD90101	2-pc. Development kit: RFduino DIP & USB programming shield	$39.95
2209895	RFD90102	7-pc. Development kit: 2 ea. RFduino DIP & 1 ea. USB, servo, RGB pushbutton, prototyping, and dual AAA battery shield accessory boards	109.95
2209908	RFD90103	12-pc. Development kit: 2 ea. RFduino DIP & 1 ea. USB, RGB pushbutton, single & dual AAA bat holder, CR2032 dual relay, µSD, prototyping, USB & PCB shield accessory boards	189.95
2209916	RFD90104	16-pc. Dev. kit: Same as P/N 2209908 but has (5) RFduino DIP & 2 USB shields. See Web for details.	279.95
2209924	RFD90105	30-pc. Dev. kit: Same as P/N 2209908 but has (10) RFduino DIP & 2 of everything else. See Web for details.	499.95
2209772	RFD22102	RFduino DIP, 16MHz, 3V, 128 kB Flash, 18mA, Bluetoooth 4.0 LE. Requires P/N 2209781 to program.	22.95
2209781	RFD22121	USB shield to program RFduino, USB type-A male, 500mA max.	22.95
2209852	RFD22128	CR2032 coin battery shield. 2V-3V output @ 25mA. 1.85" x 0.9"	14.95
2209844	RFD22127	Single AAA battery shield with step-up regulator to provide stable 3.3V @ 40mA	18.95
2209836	RFD22126	Dual AAA battery shield with step-up regulator to provide stable 3.3V @ 100mA	18.95
2209861	RFD22130	MicroSD shield allows R/W of your µSD cards. 3V-3.3V @ 100mA max. 0.9" x 0.9"	14.95
2209828	RFD22125	Proto shield with 37 free pads and breakout to I/O pins. 0.9" x 0.9". Add your own small circuits.	8.95
2209879	RFD22131	Dual relay shield. 12VDC @ 1A max rating per relay. 1.4" x 0.9". Control higher voltage and current loads.	24.95
2209799	RFD22122	RGB/Button shield. Two momentary pushbuttons and RGB LED. Works with iOS apps.	11.95
2209801	RFD22123	Servo shield drives up to 4 servos @ 6 VDC each. Needs separate 5-6VDC supply.	14.95

2209908/2209916/2209924

2209772   **2209861**

Edu & Hobby

Arduino Microcontrollers, Kits, Shields & Accessories

Arduino is an open-source physical computing platform based on a simple microcontroller board. Create interactive objects that can read inputs from a variety of switches, sensors and computers to control lights, motors and other physical outputs. The shields are expansion boards that sit atop an Arduino and broaden the functions, from motor control to prototyping.

NEW MARKED IN PINK

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Microcontroller Boards

★Web Code: ARD

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2151259	KitPro	BB-Arduino	Build an Arduino compatible circuit, Atmega328P, assembly required, breadboard/PCB not included	—	$13.95	$12.95
2115768	Solarbotics	KARDW	Ardweeny microcontroller kit, Arduino compatible, Atmega328, 7+ pieces, assembly/soldering required	1.6 x 0.54	14.95	13.49
2157765	DFRobot	DFR0159	DFRduino Pro Mini V1.2 (Arduino Pro Mini compatible) MCU board with 16MHz ATmega328, 14 digital I/O pins, 8 analog inputs, reset button, and holes for mounting pin headers	1.3 x 0.7	19.95	17.95
2184261	Adafruit	659	FLORA Arduino compatible wearable electronic platform. 3.5-16VDC, USB-mini	1.75"Dia.	29.95	26.95
2151486	Arduino	A000066	Uno Rev. 3, Atmega328 (DIP), 14 digital I/O, 6 analog I/O, USB, ICSP, 32K flash	2.7 x 2.1	32.95	29.95
2207700	Arduino	A000053	Arduino Micro: ATmega32U4 based, 6-20Vin, 20 I/O (7 PWM), 12 analog input, 32k flash, ICSP, μUSB connection	1.9 x 0.7	32.95	29.95
2207697	Arduino	A000087	Arduino Mini 05 (no headers): ATmega328, 7-9Vin, 14 digital I/O (6 PWM), 8 analog input. Program w/ USB adapter	1.3 x 0.7	32.95	29.95
2163778	Arduino	A000057	Leonardo with headers, 20 digital I/Os, 7 PWM channels, 16MHz crystal, 32k flash, 2.5k SRAM, microUSB	2.7 x 2.1	34.95	31.95
2163840	Arduino	A000073	Uno SMD Rev. 3, same as Rev.2 but has ATmega16U2 USB Serial converter & 1.0 pinout, USB-B	2.7 x 2.1	34.95	31.95
2170222	Arduino	A000062	Due, with 32-bit ARM core MCU, 54 digital I/Os, 12 analog inputs, 4 UARTs, 84MHz clock, 512kB flash	4.3 x 2.1	54.95	49.95
2121148	Arduino	A000005	Nano v3.1, ATmega328, 14 digital I/O (6 PWM), 8 analog input, 0.6" wide breadboard-ready, USB mini-B	0.7 x 1.7	49.95	44.95
2157466	WickedDevice	NAN-USA	Nanode Kit v5, similar to Uno but has built-in Ethernet 10baseT ability. Requires FTDI device to program	2.7 x 2.1	29.95	27.95
2157861	Dagu	RS019	Micro Magician v2 Robot Controller. Dual H-bridge, 3-axis accelerometer, IR. Arduino compatible	2.4 x 1.2	34.95	32.95
2213245	DFRobot	DFR0267	Bluno-BLE: Uno-compatible board with built-in Bluetooth 4.0 LE. USB/7-12Vin, App-ready for Andriod & iOS	2.4 x 2.1	49.95	44.95
2173706	DFRobot	DFR0225	Romeo V2 All-in-One controller, integrated 2-way DC 2A motor driver and Xbee socket, based on ATmega32U4	3.5 x 3.3 x 0.55	44.95	39.95
2171436	Arduino	A000095	Esplora microcontroller board w/ Atmega32U4 AVR, built-in sensors, joystick, 2 Tinker kit connectors, micro USB connection, and a socket for a color TFT display	6.5 x 2.4	54.95	49.95
2152366	Arduino	A000067	Mega2560 Rev. 3, 54 digital I/O (14 PWM), 16 analog input, 256K flash. ATmega16U2 USB-Serial converter	4.3 x 2.1 x 0.6	46.95	44.95
2170767	Secret Labs	Netduino Plus 2	32-bit microcontroller w/ 22 GPIOs combined w/ SPI, I²C, 4 UARTs (1 RTS/CTS), 6 PWM channels & six 12-bit ADC channels	2.8 x 2.1	69.95	62.95
2152294	DFRobot	DFR0162	XBoard v2 with WIZnet Ethernet port, XBee socket and ATmega328 MCU. 8 digital I/O, 8 analog input	2.6 x 1.6	34.95	31.95
2163794	Arduino	A000060	Arduino Ethernet w/ USB2 serial converter. Uno MCU & Ethernet shield in one board. PoE ready	2.7 x 2.1	69.95	64.95
2163815	Arduino	A000068	Arduino Ethernet Rev. 3 w/o PoE module, ATmega328, μSD slot & W5100 Ethernet chip, RJ45	2.7 x 2.1	56.95	54.95
2163858	Arduino	A000074	Arduino Ethernet w/ PoE module, Rev. 3. ATmega328, μSD memory slot & W5100 Ethernet chip, RJ45	2.7 x 2.1	89.95	80.95
2193441	Arduino	A000008	Yún. Built in Ethernet & WiFi, μSD slot, 20 digital I/O. Atheros AR9331 runs Linux	2.7 x 2.1	84.95	76.95
2167736	DF Robot	DFR0188	Flymaple Quadcopter Controller with ARM Cortex-M3 MCU, 3-axis accelerometer/gyroscope/compass, and barometric pressure sensor	2.0 x 2.0 x 0.5	74.95	69.95
2213261	DFROBOT	DFR0100	Beginner Kit for Arduino: DFRduino Uno R3, proto shield, USB cable, breadboard, sensors, power and passive components, 8 online starter lessons	—	54.95	49.95
2121121	KitPro	KIT-GSA	Get Started w/ Arduino kit, includes book, Arduino Uno, breadboard, LEDs, switches. No solder required	—	69.95	62.95
2208454	Intel	E000037	Intel Galileo: Quark SoC X1000, 32-bit, R3 shield-compatible, 5V, 14 digital I/O (6 PWM), 6 analog input, μSD slot, USB host/client, 80mA per I/O, 800mA on 3.3V and 5V pin	4.2 x 2.9 x 0.9	109.95	99.95
2171188	Arduino	K000007	Arduino Starter kit includes Uno Rev. 3 & 38 other components w/ book of 15 projects to learn and build	—	119.95	109.95
2193467	Arduino	A000078	Arduino Robot: Leonardo based, includes color TFT screen, 5 buttons, compass, IR floor sensors, μSD reader & more	7.5"Dia. x 3.9	279.95	259.95

Shields for Arduino (Arduino sold separately)

★Web Code: AOS

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2152438	Arduino	A000082	Arduino Prototyping Shield PCB Rev. 3, compatible with new Arduino R3 pinout. PCB only.	2.7 x 2.1	$5.95	$5.39
2159277	DFRobot	DFR0019	Prototyping shield with mini breadboard. SOIC-14 pad, ICSP header, GND/5V rails (assembled)	2.7 x 2.1	12.95	11.49
2152446	Arduino	A000083	Arduino Proto Shield Rev. 3, 2 mini pushbuttons, 3 LEDs and a few resistors. Design your own shield!	2.7 x 2.1	17.95	15.95
2193459	Arduino	A000096	1.77" TFT LCD color display w/ μSD slot, 160x128px. AVR-based Arduino compatible. 5VDC	2.33 x 1.66	34.95	31.95
2152391	Arduino	A000077	Arduino Proto Shield Rev. 3 (assembled). Has reset button, ICSP connector and pass-through headers	2.7 x 2.1	21.95	19.95

Continued on next page

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Edu & Hobby

Arduino Microcontrollers, Kits, Shields & Accessories (Continued)

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2159314   2127582   2159306   2163751   2184202   2140402   2152358   2152260   2167744

2144411   2152286   2152403   2159429   2128534   2157802   2135734   2136657   2152374

Shields for Arduino (Arduino sold separately) Continued

★ Web Code: AOS

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2152411	Arduino	A000080	MEGA Rev. 3 Protoshield printed circuit board, PCB only. For full protoshield kit, see P/N 2152420 below	4.0 x 2.1	$5.95	$5.65
2152420	Arduino	A000081	MEGA Rev. 3 Protoshield kit, multilayer PCB design, w/ ICSP header slot, two SOIC prototyping areas, and prototyping components: headers, resistors, LEDs, pushbuttons	4.0 x 2.1	14.95	13.49
2173829	Macetech	MTCEN001	Centipede add-on PCB shield, I²C interface, provides 64 GPIO pins, 5V, 2x10 headers, headers unsoldered	2.7 x 2.1	24.95	22.49
2144534	DFRobot	DFR0060	Screw Shield for Arduino. Convert female header pins to more secure screw terminals	2.7 x 1 (x2)	7.95	7.25
2159314	DFRobot	DFR0131	Proto Screw Shield (assembled). Provides prototyping area & screw terminals for secure I/O connections	2.65 x 3.17	14.95	13.95
2127582	Liquidware	DoubleWide	Replicate all Arduino pins into 2 locations so you can add 2 sheilds while having access to both at the same time. Shields sit side by side	2.7 x 4.2	19.95	18.95
2159306	DFRobot	DFR0015	XBee Expansion Shield. Allows an Arduino board to communicate wirelessly with XBee 1mW, XBee Pro or XBee 2.5 Series	2.5 x 2.4	12.95	11.95
2163751	Arduino	A000007	XBee Expansion Shield with Maxstream series 2 XBee RF module. Up to 100-meter distance transmission, fully assembled	2.5 x 2.4	45.95	—
2184202	Adafruit	1141	Data Logging Shield. Built in RTC & µSD slot, 3.3Vreg. Additional libraries required.	2.7 x 2.1	19.95	18.95
2140402	Arduino	A000064	Wireless Proto Shield with XBee communication support. Up to 100-ft indoors/300-ft outdoors	2.7 x 2.1	21.95	20.95
2152358	Arduino	A000065	Wireless SD Shield with µSD card slot and XBee socket. Up to 100-ft indooes/300-ft outdoors	2.7 x 2.1	29.95	27.95
2152260	DFRobot	DFR0144	Relay Shield controls up to 4 relays. Max. switching power: DC 90W or AC 360VA. Controllable with Arduino, Xbee or Bluetooth	3.25 x 2.2	18.95	17.95
2167744	DFRobot	DFR0071	SD Card Breakout Shield for standard SD and microSD cards. Switch-selectable, allows mass storage	1.5 x 1.2	12.95	11.95
2144411	DFRobot	DFR0009	LCD Shield. 16x2, HD44780 compatible. White text, blue backlight, uses LCD4Bit library	2.7 x 2.1	15.95	14.49
2152286	DFRobot	DFR0092	Graphics LCD Shield provides a 48x48 pixel display. 6 digital, 5 analog I/Os, 2.3 x 2.1 displays English or Chinese, integrates a 5 DOF joystick	2.3 x 2.1	26.95	24.95
2193651	Adafruit	1438	Motor/Stepper/Servo Shield v2.0. Supports 4 DC or 2 stepper motors. 4 H-bridges; 1.2A per bridge	2.7 x 2.1 x 0.4	19.95	18.95
2152403	Arduino	A000079	Arduino MotorShield Rev. 3. Dual full-bridge for inductive loads like relays, solenoids, DC/Stepping motors. 2A per ch., 4A max.	2.7 x 2.1	29.95	28.49
2191218	DFRobot	DFR0265	I/O Expansion Shield v7. 3.3/5V Op. select, XBee/Bluetooth-ready, SD slot, 3.3V out	2.1 x 2.1	19.95	18.95
2159429	DFRobot	DFR0165	I/O Expansion Shield for Mega with 3 XBee slots, 1 microSD slot, prototyping area and Arduino shield headers	4.9 x 2.2	19.95	18.95
2157781	DFRobot	DFR0008	Input Shield with 2-axis mini joystick, 4 colored pushbuttons, XBee socket, ACP220 radio module ready	4.75 x 2.1	16.95	15.95
2128534	Robot Power	MEGAMOTO	High-power Motor Shield. 5-28V, 13A/30A peak, H-bridge or dual half-bridge	2.7 x 2.1 x 0.5	49.95	47.95
2157829	DFRobot	DRI0009	2-Amp Motor Shield. Allows drive of two 7-12VDC motors with 2A maximum current each way	2.3 x 2.2	17.95	16.95
2157802	DFRobot	DFR0105	Power Shield. Provides a voltage range from 1.25-12V with 3A peak current, supply voltage range: 4.5V-35V	2.3 x 2.3	19.95	18.95
2135734	Rogue Robotics	AP-RMP	MP3 playback module without stacking headers. Module only. Supports MMC/SD/SDHC up to 32GB	2.7 x 2.1	56.95	54.95
2136657	Rogue Robotics	AP-RMP-H	MP3 playback module with stacking headers. Arduino compatible, supports MMC/SD/SDHC up to 32GB	2.7 x 2.1	59.95	56.95
2152374	Arduino	A000072	Arduino Ethernet Shield Rev. 3 w/ µSD slot. PoE ready. Connects to LAN w/ Ethernet Library. Compatible w/ MEGA boards	2.7 x 2.1	35.95	34.95
2152382	Arduino	A000075	Arduino Ethernet Shield Rev. 3 w/ µSD slot & Power over Ethernet module. Embedded W5100 chip.	2.7 x 2.1	54.95	52.95
2157811	DFRobot	TEL0047	WiFi Shield v2.1 for Arduino. IEEE802.11b/g/n compatible, data rates: 11, 5.5, 2, 1 Mbps. Uses 3.3V	2.3 x 2.1	84.95	79.95
2163786	Arduino	A000058	WiFi Shield. Connects Arduino to the Internet wirelessly, 802.11b/g networks, WEP/WPA2 personal encryption	2.7 x 2.1	89.95	86.95
2153781	Parallax	35000	Board of Education Shield. Solderless breadboard prototyping & servo ports. Works with Uno & Mega	4.0 x 3.0	34.95	29.95
2184211	Adafruit	1272	Ultimate GPS Logger Shield w/ GPS module. -165dBm, 66-CH, RTC, µSD slot. Uno-compatible	2.7 x 2.1	54.95	49.95
2167779	DFRobot	TEL0051	GPS/GPRS/GSM Module v2. 4-band, AT-commands, 6-9VDC@0.1A, embedded SMD antenna	2.8 x 2.2	99.95	94.95
2157837	DFRobot	TEL0044	GPS Shield for Arduino, w/ KickStart technology. GALILEO receiver module, built-in flash memory, antenna included	2.8 x 2.2	99.95	—
2153799	Parallax	130-35000	Robotics Shield kit mounts on Boe-Bot chassis (not incl.) features 40+ hands-on activities	5.0 x 3.3	129.95	119.95
2127558	Liquidware	Touchshield Slide	320 x 240 pixel resistive OLED touch screen, ATmega2560, can store (60) 128x128 images	2.7 x 2.1 x 0.5	169.95	164.95

Sensors, Accessories and Miscellaneous Kits

★ Web Code: AOA

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2137756	Arduino	A000040	Header kit for shields. (2) 1 x 6 pos & (2) 1 x 8 pos, 15mm pin length, 0.1" spacing	—	$1.75	$1.59
2152180	DFRobot	DFR0062	Wii Chuck Adapter is Arduino compatible. Inserts into connector of a Nintendo Wii Nunchuck controller. 4-pin header allows access to 2-axis joystick, 2 buttons, and 3-axis ±2g accelerometer	1.0 x 0.25	3.95	3.49
2159453	DFRobot	DFR0028	Digital tilt switch sensor. 3-pin connection: output, power, ground	1.2 x 0.8 x 0.35	4.95	3.95
2159381	DFRobot	SEN0114	Soil moisture sensor. Reads moisture present, includes analog sensor cable	2.4 x 0.8 x 0.35	5.95	4.95

Edu & Hobby

Arduino Microcontrollers, Kits, Shields & Accessories (Continued)

NEW MARKED IN PINK

2213384	2206133	2206125	2206109	2190733	2144462	2206150	2206168	2213413	2134926
2134993	2152340	2152243	2159461	2207718	2206141	2190864	2117341	2150521	2159402
2206117	2190805	2213368	2159251	2159390	2216631	2170581	2144665	2144489	2144500

Sensors, Accessories and Miscellaneous Kits (Continued)

★ Web Code: AOA

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2213384	DFRobot	DFR0032	Digital buzzer module. 3.3V/5V operating, drive with a high/low signal, 3-pin connection	1.2 x 0.9 x 0.5	$3.95	$3.75
2206133	ValuePro	U13-C0438	Moisture sensor detects moisture level based on resistance. 3V/5V@35mA max., 4-pin (2mm) connector	2.4 x 0.8 x 0.2	5.95	5.49
2159445	DFRobot	DFR0034	Analog sound sensor. Detects sound intensity, input voltage: 5VDC	1.2 x 0.8 x 0.4	7.95	6.95
2206125	ValuePro	U13-C0439	Sound sensor detects sound strength. 4V-12V (5V typ.) 52-48dB sensitivity. Mic freq. 20Hz-16KHz	0.96 x 0.8 x 0.4	6.95	6.25
2159568	DFRobot	SEN0128	Analog alcohol sensor. Sensitivity-adjustable, input voltage: 5VDC	1.7 x 0.8 x 0.5	9.95	8.95
2159373	DFRobot	SEN0101	Color sensor with RGB sensor chip and 4 white LEDs. Digital TTL interface, 2.7-5.5V, TCS3200	1.2 x 1.2 x 0.6	8.95	7.95
2206096	ValuePro	U13-C0449	Ambient light sensor uses LM358 chip, 3V/5V@0.5-3mA, 20k to 1M ohm, 4-pin (2mm) header	0.96 x 0.8 x 0.4	4.95	4.49
2157845	DFRobot	DFR0077	RS-232 to TTL converter. 4-pin connection: 5V, GND, logic in (SRX), logic out (STX), 300 to 115200 bauds	1.7 x 1.4 x 0.5	9.95	8.95
2144454	DFRobot	DFR0017	Relay module. Arduino compatible. 150VAC/24VDC max switching voltage, 10A(NO) 5A(NC)	1.4 x 0.9 x 0.7	9.95	8.95
2206109	ValuePro	U13-C0443	Relay module. Arduino compatible. Peak: 250VAC/30VDC@10A, Pin1 is ON, Pin 2 is COM	1.7 x 0.9 x 0.8	7.95	6.95
2152315	DFRobot	DFR0107	Arduino compatible IR remote and receiver kit. Includes 3-wire cable	3.4 x 1.6 x 0.3	9.95	8.95
2150441	Dagu	RS002A	Compound infrared sensor can be used as a range finder or movement tracker within 200mm, 4 pairs of IR phototransistors and (4) IR LEDs	1.9 x 1.2 x 0.5	8.95	7.95
2159437	DFRobot	DFR0061	2-axis joystick module with built-in button switch. Arduino compatible	1.5 x 1 x 1.26	10.95	9.95
2190733	DFRobot	DFR0053	Analog slide position sensor. 5V operation and has a red thumb slider. 5.4Ω resistance value	3.4 x 0.9 x 1.2	9.95	8.95
2144462	DFRobot	SEN0019	Adjustable IR sensor switch. 3-80cm range, 5V@100mA. 18" cable w/ 3-pin connector.	1.76"L x 0.70"Dia.	9.95	8.95
2206150	ValuePro	U13-C0441	PIR motion sensor, 3V/5V @ 150µA max. Range: 0.25-19.5 ft. Hold time: 1-25 sec. Detection angle: 120°	1.6 x 0.8 x 0.4	9.95	8.95
2206168	ValuePro	U13-C0442	Ultrasonic range/distance finder. 3.3V/5V @ 15mA. Range: 0.2-19.5 ft. 30° FOV. PWM output	1.8 x 0.8 x 0.6	14.95	13.49
2213413	DFRobot	SEN0018	Digital infrared sensor: 3V/5V @ 40µA, 110° detection angle, 23 ft. max distance, HIGH/LOW output level	1.4 x 1.1 x 0.3	5.95	5.65
2184288	Adafruit	1260	FLORA RGB Smart Neo Pixel v2 (4 pack). 24-bit, 5-9VDC, chainable. 18mA constant current per LED.	0.5" Dia.	11.95	10.95
2152251	DFRobot	DFR0106	Light disk with 7 SMD RGB LEDs. 5V operation, 4-pin header, 6000mcd	1.42"Dia.	10.95	9.95
2134926	Arduino	A000009	Project enclosure, ABS plastic, fits: Uno-Duemilanove-Diecimila-NG or MEGA, Ethernet shield and battery	3.4 x 2.5 x 1.1	12.95	11.95
2134993	ValuePro	PROTO KIT	830-contact breadboard with 70-piece jumper wire kit for easy prototyping	6.5 x 2.5 x 0.3	13.95	12.95
2152340	Arduino	A000059	USB to 5V serial adapter board. Includes pins for RX, TX, 5V, ground and reset	1.7 x 1.0 x 0.4	15.95	13.95
2152243	DFRobot	DFR0065	FTDI basic breakout board for USB to serial communication. Uses DTR pin for hardware auto-reset when a new sketch is downloaded	1.6 x 0.8 x 0.4	16.95	14.95
2159461	DFRobot	DFR0143	Triple axis accelerometer, with selectable sensitivity: ±1.5g/6g, 3 JST connectors, low pass filter, analog output	1.5 x 0.9 x 0.3	16.95	14.95
2207718	Arduino	E000019	Non-invasive AC current sensor. Clamp around the supply line and measure AC load up to 100A	2.3 x 1.4 x 0.8	16.95	15.95
2206141	ValuePro	U13-C0436	3-axis digitial accelerometer (±1.5g), MMA7660FC-based, I²C, 3V-5.5V, 47µA max., 21 LSB/g sensitivity	0.96 x 0.8 x 0.4	14.95	13.49
2190864	DFRobot	SEN0142	6 DOF I²C sensor. MPU6050 combines 3-axis gyroscope and 3-axis accelerometer. Get pitch, roll, yaw, quaternoin, euler.	0.8 x 0.5 x 0.2	29.95	28.95
2159496	DFRobot	DFR0126	Digital audio analyzer w/ graphic equalizer display filter giving your Arduino ears. Can be read in 7 different frequency bands	1.2 x 0.8 x 0.3	17.95	16.95
2117341	Solarbotics	50512	Basic breakout board. 3.3/5V, FTDI mini USB-B to serial 6-pin, works w/ Arduino & clone 5V Arduino boards can use as a USB port, FT232RL chip	1.4 x 0.7 x 0.3	19.95	18.95
2150521	Dagu	RS003HP	Wild Thumper high power switch for circuit protection. 6-20 bat. voltage, 2x15A H-bridge	2.4 x 1.9 x 0.8	19.95	17.95
2159402	DFRobot	DFR0066	Humidity and temperature sensor with SHT1x sensor. Individually calibrated in a precision humidity chamber	1.6 x 1.1 x 0.3	19.95	18.95
2206117	ValuePro	U13-C0434	Ambient temperature sensor, 3.3V/5V (5V recommended), -40°C to +125°C, 1.5°C accuracy, 10KΩ zero power	1.0 x 0.8 x 0.4	5.95	5.49
2190805	DFRobot	SEN0120	BMP085 barometric pressure sensor. 300-1100 hPa with 0.03 hPa accuracy. 1.8V-3.6VDC, I²C, 6-pin header	0.6 x 0.6 x 0.3	12.95	11.95
2213376	DFRobot	DFR0023	LM35 analog linear temperature sensor. 0°-100°C with sensitivity of 10mV per °C. 3-pin output	1.2 x 0.9 x 0.3	4.49	4.25
2213368	DFRobot	DFR0067	DHT11 temperature and humidity sensor. 3.3V/5V, 0°-50°C ±2°C, 20-90%RH ±5%RH, 3-pin digital output	1.3 x 0.9 x 0.3	4.95	4.69
2159251	DFRobot	DFR0141	Light disc with 12 SMD RGB LEDs. Individual color/brightness configurable, 5V operation, 12C Assembly req.	2.5"Dia.	19.95	17.95
2159390	DFRobot	DFR0129	Capacitive touch kit, with iPod-style wheel touch, keypad touch and a grid touch pad, includes cables	—	24.95	22.95
2216631	Gear Seven	SQ9209481	Hand gesture and 5 touch sensor development kit. Gestures: Up, Down, Right, Left up to 5". I²C & 2xGPIO. 3.3V	2.5 x 2.5 x 0.2	39.95	—
2170581	Tux-Lab	E001-TUX	Aluminum enclosure for Arduino Uno and Duemilanove. Clear acrylic cover, two slots for USB and DC power jacks	3.2 x 2.5 x 0.9	22.95	19.95
2144665	PowerSwitch Tail	80135	Power cord switch. Control outlet with microcontroller, 3-prong, 15A @ 125VAC, 5V control signal	4.0 x 2.1 x 1.5	29.95	26.95

★*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

Edu & Hobby

Arduino Microcontrollers, Kits, Shields & Accessories (Continued)

NEW MARKED IN PINK

2127566   2157757   2157749   2167761   2152307   2210001   2190901   2124285   2209932   2159912

Sensors, Accessories and Miscellaneous Kits (Continued)

★ Web Code: AOA

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2144489	ValuePro	2601510235340Z	Conductive sewing thread. Size 92, 234/34 (4 ply), 50Ω/meter. Perfect for Lilypad or wearables	400'+ reel	$34.95	$29.95
2144500	DFRobot	DFR0018	9-pc analog sensor set for Arduino. Includes big push button, LED light module, ambient light, capacitive touch, LM35 temperature, magnetic, vibration, tilt and grayscale sensor. Each sensor has 12" wires	(1) 1.4"L x 0.8"W (8) 1.2"L x 0.8"W	39.95	36.95
2127566	Liquidware	HICAP Li Backpack	High capacity 2200mAh Lithium-Ion battery. Rechargeable via Arduino USB and USB type-B mini cable. Supplies regulated 5V and 3.3V	2.7 x 2.1 x 0.5	46.95	44.95
2157757	DFRobot	KIT0003	Auto-watering kit with control board, temp/humidity sensor, moisture sensor, water tube, immersible pump, mini USB cable, 6xAA battery holder, DC adapter and enclosure	3.7 x 2.4 x 2.4	59.95	54.95
2157749	DFRobot	DFR0182	Wireless gamepad v2.0. Supports Xbee, Bluetooth, RF and WiFi via the Xbee socket, allows the user to define the buttons and protocols via standard Arduino IDE, 3 AAA batteries required	5.5 x 4.6	64.95	59.95
2167761	DFRobot	KIT0011	24-piece advanced sensor set, including sensors such as light, gas, sound, touch, accelerometer, and more	—	84.95	79.95
2152307	DFRobot	COMB0002	Wireless programming kit for Arduino Uno/Duemilanove, Mega 1280/2560. Includes: 2 programming modules, I/O shield, Xbee USB adapter, USB cable	2.4 x 2.4	89.95	84.95
2183859	EarthLCD	ARLCD	3.5" Color TFT Touchscreen, Arduino compatible, 16-bit GPU, 320x240px, 65k color, LED backlit	3 x 3 x 0.9	89.95	—

Chassis/Mobile Platforms and Accessories

★ Web Code: MOB

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing 1	Pricing 5
2150547	Dagu	DG008	4WD plastic mobile platform with (4) 4.5V motors. No load speed is 90 ±10 rpm	6.25"L x 5.0"W	$26.95	$23.95
2210001	Dagu	DG007	Magician acrylic chassis. (2) gear motors w/ 65mm wheels & rear caster. 6VDC, 90 rpm. 4xAA required	6.85 x 4.33	17.95	16.95
2190901	DFRobot	ROB0049	2WD miniQ aluminum mobile platform with (2) N20 6V, 50:1, 260 rpm gear motors. 10 oz/in torque	4.8"Dia.	42.95	39.95
2124277	DFRobot	ROB0005	2WD aluminum mobile platform with (2) 3-6VDC motors, speed: ~27.6"/sec.	6.7"Dia.	57.95	55.95
2124285	DFRobot	ROB0003	4WD aluminum mobile platform with (4) 3-6VDC motors, speed: ~35"/sec.	7.9 x 6.7 x 4.1	59.95	54.95
2144420	DFRobot	ROB0025	4WD aluminum mobile platform with wheel encoder, (4) 4.5-6V motors, speed: ~26.7"/sec.	9.0 x 7.3 x 4.3	79.95	74.95
2146345	DFRobot	ROB0022	4WD aluminum mobile platform with Romeo (v1.1) microcontroller. Romeo is Arduino compatible and features built-in motor control, speed: ~35"/sec. (4) 3-6VDC motors included	7.9 x 6.7 x 4.1	84.95	79.95
2209932	Dagu	RS035	T'Rex aluminum tank chassis can handle rough terrain. 45mm wide zinc tracks. 12V (typ.) 11A stall current	14 x 10.4 x 5.1	249.95	224.95
2159488	DFRobot	SEN0038	2 Wheel encoders with motors for DFRobot 3PA & 4WD Rovers. +5V, < 20mA, 20PPR	—	13.95	12.95
358336	Tamiya	70144	Ball caster set. (2) ball casters and height can be adjusted for various applications and projects.	1.1 x 1.1 x 1/1.4	6.95	5.95
2159912	DFRobot	FIT0003	Replacement wheels w/ tires. Used w/ above 2WD/4WD mobile platforms. Fits motor P/N 2150432, 2 wheels in the pack	2.58"Dia. x 1.03"W	12.95	11.95
2159921	DFRobot	RB-TIRE	Replacement tires only w/o rims to replace FIT0003 tires. 4 tires in the pack	2.58"Dia. x 1.07"W	2.49	2.25

Horizon Alternative Energy Kits

★ Web Code: NRG

Horizon Fuel Cell Technologies has become the world's largest volume producer of commercial fuel cell products, serving customers in over 40 countries. The launch of the "H-Racer" toy-scale fuel cell car in 2006 offered a first glimpse of the company's unique technology and won several consumer product design awards, including a Time Magazine "Best Invention" award. Presently, Horizon produces extremely compact, lightweight and complex hydrogen generation solutions suitable for electronic hobbyists, including renewable energy science experiment sets and battery-free kits.

2153861

2112170   2112161   2206002   2095007   2206029   2163073   2163090

Part No.	Mfr. Part No.	Description	Price
2112170	FCJJ-16	Solar Hydrogen Education; invent clean energy applications using fuel cells and renewable hydrogen	$85.95
2112161	FCJJ-11	Fuel Cell Car Science, reversible PEM fuel cell combines electrolysis & power conversion in an autonomous car	83.95
2206002	FCJJ-34	Salt Water Fuel Cell science education kit. Electric motor with fan, wire leads with plugs and tubing included	79.95
2095007	FCJJ-23	H-Racer 2.0 is the world's smallest hydrogen fuel cell car equipped with remote-control steering and light emitting features with the car	134.95
2112153	FCJJ-26	Hydro-Wind Turbine kit invents clean energy applications using fuel cells and renewable hydrogen-harness the energy of the wind	99.95
2206029	FCJJ-42	Ethanol Fuel Cell science education kit. Extract hydrogen from ethanol to produce energy without combustion. pH paper, fuel cell, fan and tubing included	159.95
2206011	FCJJ-35	Super Capacitor science kit. Store energy generated by the hand crank, measure stored voltage and run a small electric fan.	164.95
2184755	FCJJ-33	Renewable Energy Science Lab. Includes WindPitch turbine, PEM fuel cell, energy monitor and more	279.95
2163090	LWH22-10L-5	Hydrostik fuel cartridge, stores 15Wh of hydrogen energy in a solid-state, use with MiniPak power supply (P/N 2163073) and Hydrofill station (P/N 2153861)	24.95
2163073	FCHP-02	MiniPak power supply, delivers up to 2W DC power, includes Hydrostik catridge (P/N 2163090), 0.5W LED flashlight, USB connector tips/adapters, storage pouch	129.95
2153861	FCH-010	Hydrofill refueling station, fills the Hydrostik catridge (P/N 2163090) with 99.9% hydrogen, produces 3 liters of hydrogen per hour, just add de-ionized or distilled water	349.95

Edu & Hobby

JAMECO.com

DIY Workshop Kits & Club Jameco Projects

JAMECO **KitPro** ★ **Web Code: FMB**

Forrest M. Mims III Kits and Books
See complete kit descriptions online, additional parts may be required

Part No.	Description	1	5
2155487	Atari Punk Console Kit: Sound synthesizer based on the 555 timer	$24.95	$22.95
2155508	Toy Organ Kit: Each button generates a different tone with tunable volume and pitch	39.95	36.95
2155495	The Fridge Alarm Kit w/ Forrest Mims Mini Notebook: Electronic Sensor Circuits & Projects	26.95	23.95
2155532	The Vibration Sensor Kit: Detect vibrations with a piezo speaker and signals via an LED	19.95	18.95
2158709	Forrest Mims Mini Notebook Series, Volumes 1-4	52.95	51.95
2158047	Forrest Mims Five Book Bundle: Includes a collection of 100 hand-tested circuits for building	69.95	66.95
2158725	Forrest Mims Five Book and Four Electronic Kits Bundle: Soldering is required	169.95	164.95

Circuit Skills Web Supported Kits & Projects
★ **Web Code: ERK**

Part No.	Description	1	5
2113244	Etch your own printed circuit board. Includes (2) 3"x4" pre-coated boards & etch solution★	$46.95	$42.95
2117202	Build a waveform generator and learn the basics for laying out an enclosure. Soldering required	64.95	62.95
2121092	Build a basic guitar effect pedal while learning the basics for perfboard prototyping. Soldering required	24.95	23.95
2124197	Try your hand at a SMT project w/ 1206 components and you too can build a light reactive tone generator	29.95	27.95
2126272	Learn the basic fuctionality of an LED Color Organ ("sound-to-light") circuit. 3.5mm audio jack input	34.95	29.95
2127970	Learn how to drive an 8x8 LED matrix using an LED driver IC and an Arduino. Includes Arduino Nano v3.0	54.95	49.95

★Shipped via ground to continental U.S. only

Jameco Builds
NEW *MARKED IN PINK* ★ **Web Code: ERK**

Part No.	Description	Price
2216606	Simple dual jumbo LED flasher. Potentiometer adjustable flash rate. 14 components. Mountable. 9V battery required.	$5.95
2217174	Simple dual jumbo LED flasher breadboard project. Similar to 2216606, but no soldering involved. 9V battery required.	5.95
2217078	Open-Source Arduino Clock. Display 12/24 hr time & date, & select other modes like stop watch and count-down. Upgradeable.	79.95
2155516	Build a compact USB charger w/ 5V output to charge small electronic devices. Soldering required	14.95
2155567	RGB LED Origami Kit: Includes (3)10mm RGB LEDs, mini-breadbrd, hook-up wire, battery box & batteries	17.95
2155541	LED Color Organ Kit: Similar to 2126272 but includes PCB with labels. Mono channel.	39.95
2146329	4x4x4 LED Cube Kit: Advanced solder kit requires AVR programming for blue LED display visuals	69.95
2210651	8x8x8 Blue LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included.	149.95
2210642	8x8x8 Green LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included.	149.95
2210669	8x8x8 White LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included.	149.95
2192296	Construct a simple DC motor by making use of electromagnetic principles	13.95
2192309	Construct a simple DC motor. Classroom pack for 20 students	99.95
2216841	RFID Deadbolt Hack. Includes serial reader and 4 tags, ProMini MCU, ProtoDough for custom bracket. Lock not included.	119.95

Club Jameco Projects
Earn with Club Jameco www.ClubJameco.com/Earn ★ **Web Code: CJK**

Part No.	Description	Price
2168405	4 Input Audio Switch Box Kit: Switches any four male audio 3.5mm inputs to one 3.5mm output	$12.95
2160817	Super Simple Low Power AM Radio Kit: Learn basic RF concepts with this breadboard project	14.95
2158987	Cyclops Walkbot: A great beginner solder kit that builds a 1" square vibrating robot with LED eye. Sure to entertain kids and cats alike!	15.95
2204197	Pocket Power Supply: Select 1.5, 3, 4.5, or 6V from a 9V battery.	17.95
2182670	Simple Audio VU Meter: 20 LED bar-graph display, 3.5mm audio out	19.95
2169580	Easy Laser Alarm Kit: Senses light from a laser on a photocell to sound a buzzer when the beam is broken	19.95
2208702	Guitar to AV Receiver Interface: This filter allows you to plug your guitar directly into your home stereo via RCA jacks.	19.95
2183824	Solar Energy Converter/Transmitter converts solar (DC) to a high frequency pulsed DC (radiant energy). Additional components required.	19.95
2169694	The Science of Remote Controls shows you how to make a special LED circuit controlled by infrared light.	19.95
2205991	Portable LED Strobe: 30 bright white LEDs and the flash rate is adjustable	24.95
2177918	Electronic Organ: 555 timer based capable of producing DO, RE, MI, ... notes. 9V battery not included.	22.95
2184579	Arduino-compatible Temperature Sensor. FTDI breakout board & 4x7 segment display not included.	22.95
2192106	Car Battery Charging System Diagnostics: Indicates whether a car battery is good, cranking current and alternator function.	24.95
2188393	Raspberry Pi LED connects via GPIO and learn to write a program to control the 8 LEDs. Raspberry Pi not included.	24.95
2162505	x10 Appliance Module for LED & CFL lighting applications. MAX AC current rating is 6A.	24.95
2169459	Learn to Solder & Program Temp Logger. (PICAXE-08M2 sold separately)	24.95
2169571	8-Pin Programmer Kit: Program ATtiny series chips using an Arduino as the programmer	24.95
2170337	Free Charge Controller Development Kit- Participate in a collaboration to improve the design. See Web for full details.	24.95
2169109	Water Level Control: Sense high/low and trigger a relay. Pump not included.	24.95
2171591	Animated LED Eyes: Eyes blink and scan around and shoot forward when walking by	24.95
2191242	Bike Turn Signal and Headlight: Switch controlled LED blinkers and LED headlight	24.95
2170530	Programmable Light Chaser: An animation controller for 32 LEDs; program to create animation patterns	24.95
2171604	Universal IR Remote Receiver: Capable of controlling two channels in several selectable ways	24.95
2169504	Prank Box: A sealed wooden box with an electric bell inside that is secretly activated by a key switch	24.95
2160681	Transformer Kit: Learn how to wind a simple step-up or step-down transformer	24.95
2163962	Propeller Clock is a mechanically scanned LED clock in POV effect. (motor sold separately, see Web)	24.95
2171057	DIY RFID Reader: Build an EM4100 compatible reader w/ serial interface. RFID tags and 5V power source required.	27.95

Continued on next page

Jameco's Workshop
Scan on your smartphone with a code reader app.

2155487

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Edu & Hobby

★*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

JAMECO | KitPro

DIY Workshop Kits & Club Jameco Projects (Continued)

Club Jameco Projects (Continued)

See complete kit descriptions online (Additional components may be required)

★ Web Code: CJK

Part No.	Description	Price
2161107	Variable Digital Load: Max. load volt.: 48V @ 0.5A, Max. load curr.: 3A @ 12V. 12VDC@100mA power supply not included.	$29.95
2168325	Metronome Kit: 7-seg display shows beats/min and allows you to switch between different time signatures	29.95
2170812	DIY geiger counter uses a PIN photodiode as a substitute for a Geiger-Mueller tube. Detect alpha and beta particles	32.95
2171516	Portable Retro Hi-Fi Speaker.(requires bookshelf speaker or equivalent)	34.95
2189548	Arduino Waveform Generator Shield: A function generator, perfect for testing and debugging circuits. Sine, triangle, pulse and saw from 1-50Hz.	34.95
2169061	Talking Voltmeter reads out whole number readings. Adjustable (0-20V) power supply required.	34.95
2173714	The Listening Tree combines a light organ and a fiber optic tree for music-synched visuals. Arduino & optical fibers not included.	34.95
2182661	Tripple Power Supply with Digital Monitor: Turn an unregulated 9V transformer into three selectable regulated output voltages of 5V, 9V and 12V.	34.95
2172623	Clock in a Bottle: This design uses a Russian Numatron nixie tube (not included) for each digit. Additional materials req.	39.95
2190178	PID Temperature Controller: Designed around the ATmega328P microcontroller utilizing the Arduino Duemilanove bootloader.	39.95
2190080	Vein Finder: Uses bright red LEDs to illuminate your veins!	39.95
2169467	Magic Morse Code Trainer Kit: Easily learn Morse code and get immediate feedback	39.95
2169475	Surveillance Camera Pan/Tilt Decoder Kit: An interface between your camera system and other devices	44.95
2170492	PS/2/You: Go-anywhere LED Digital Message Board: Instant updatable 768-pixel digital message board	44.95
2188406	Miniature Programmable Synthesizer: MIDI/USB cable, PIC18F4520-I/P, PIC programmer and switch caps are required.	44.95
2184587	Motion Triggered Room Light turns off the light after several minutes of inactivity. Additional components required, see Web.	44.95
2183816	PWM Stepper Motor Driver: Control a stepper motor using this circuit and a servo PWM signal from an R/C controller, Arduino or microcontroller.	44.95
2193846	3x3x3 Red LED Cube is assembled on an Arduino Protoshield. Instructional code helps you light specific LEDs	49.95
2171997	Medium Power Resistive Decade Load Box. 0.1 to 999.9Ω (resistors sold separately)	54.95
2170548	Arduino Waveform Generator Shield: Useful for testing/debugging circuits and frequency response	64.95
2168309	Fun Light Switch Box: Behavior of the lights vary depending on how the switches are set	69.95
2188326	Arduino Breadbox: Easy to use kit to experiment w/ servos & analog inputs. Works w/ Arduino Uno or Raspberry Pi (not included).	69.95
2203944	DIY Alarm Experimenter (w/o Arduino & USB cable): Test IR break-beam, magnetic proximity & force sensors w/ RGB display	69.95
2174670	Portable Propeller FM Radio lets you listen to FM radio anywhere. Uses Parallax Propeller MCU. MAX756CPA required.	69.95
2192886	Home Energy Monitor: Monitor AC voltage and current for an entire home. The data collected is then used to calculate usage.	79.95
2192093	DIY Robotic Hand Shadow. With additional parts, create a robot hand that mirrors yours	99.95
2203872	Experiment with Alarms. Learn about laser/IR break beam, magnetic proximity & touch sensors	99.95
2168940	8x8x8 LED Cube: Includes 550 3mm blue LEDs. Driven by included Arduino Uno. Programming required	149.95
2172017	8x8x8 LED Cube: Includes 550 3mm green LEDs. Driven by included Arduino Uno. Programming required	149.95
2169539	8x8x8 LED Cube: Includes 550 3mm white LEDs. Driven by included Arduino Uno. Programming required	149.95
2204365	Parts Bundle for Arduino Cookbook: Contains roughly 90% of the parts used for projects in the Cookbook (P/N 2168384, not included).	349.95

Club JAMECO®

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NEW MARKED IN PINK

2168325   2170812   2171516

2173714   2172623   2190178
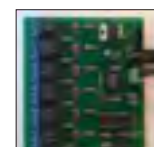
2190080   2169475   2188406

2184587   2183816   2193846

2188326   2192093   2172017

MONDO•TRONICS

Flexinol® Shape Memory Alloy Actuator Wires

Small diameter nickel-titanium wires contract like muscles when electrically driven.

★ Web Code: WAU

- LT (low-temp) activate at 70°C
- HT (high-temp) activate at 90°C

Includes: Instructions and technical specs.

357641   357528   357835

Part No.	Mfr. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing 1	5
357931	075LT	1	75	200	100	815	80	40	$8.95	$7.95
357595	100HT	1	100	150	180	28	150	43	9.95	8.95
357472	100LT	5	100	150	180	28	150	33	26.95	24.95
141874	150LT	1	150	50	400	62	330	20	9.95	8.95
160055	375LT	1	375	8	2750	393	2000	4	12.95	11.49
357712	375HT	1	375	8	2750	393	2000	5	10.95	9.95

*Multiply by 0.0098 to get force in Newtons   **Cycles per minute, in still air, at 20° Centigrade

Muscle Wire Kits, Book, Nitinol Wire and Springs

★ Web Code: WAU

Part No.	Mfr. Part No.	Description	1	5
141330	3-133	Muscle Wire Project Book, 3rd Edition	$19.95	$18.95
357659	3-141	Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)	32.95	29.95
357641	3-136	Muscle Wire Super Sampler kit (20cm each of 037µm, 050µm, 100µm, 150µm, 250µm)	35.95	32.49
357798	3-401	Nitinol SMA wire (1 meter L x 500µm Dia.)	16.95	15.49
357835	3-642	Nitinol tension springs (4pk.) 6.5mm OD x 26.5mm L x 750µm, black	39.95	37.95
357528	3-102	Muscle Wire R & D kit (5 meters each of 0.050µm, 100µm LT wire; 1 meter each of 250µm Flexinol LT wire	119.95	107.95

PNI Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- 2° accuracy, 1° resolution
- 3-wire serial output format
- Raw uncalibrated magnetometer output optional
- Hard iron calibration   • 5Hz sampling rate
- Master or slave capability for data clock generation

Part No.	Description	1	5
126703	Compass module	$24.95	$22.95

RC Eye One Quadcopters

Self-stabilizing, robust 4-rotor frame and smart flight control system is safe and easily maneuverable for beginners. 3 flight modes to match your experience.

2204373

Includes: Quadcopter, 7.4V/350mA LiPo battery, USB LiPo charger, RC, replacement rotors, 2xAAA

2204381: 2.4GHz, landing gear upgrade, 25% more power in Sport mode, acrobatic flip ability

Part No.	Description	1	5
2204373	915MHz Quadcopter	$59.95	$54.95
2204381	2.4GHz Quadcopter	79.95	74.95
2204390	Crash pack for 2204381	21.95	19.95
2204402	2x LiPo batteries & charger	24.95	22.95

Edu & Hobby

Solar Panels

Web Code: AEK

Solar Photovoltaic Arrays

- Full-size monocrystalline solar panels can be used to charge your batteries or power your project
- 2 different panels to suit your applications   • Max. power voltage: 17.8V   • Open-circuit voltage: 21.6V
- Panel frames are made from aluminum for lightweight quality   • Maximum system voltage: 1000VDC
- Tested under Standard Test Conditions (STC – irradiance 1000W/m², AM 1.5 spectrum, cell temperature: 25°C)

2128569   **2128585**

Part No.	Mfr. Part No.	Max Power (W)	Max Current (A)	Short-Circuit Curr. (A)	No. of Cells	Dimensions (L" x W" x H")	Wt. (lbs.)	1	5	25
2128569	PM-25S	25	1.35	1.50	9	25.3 x 11.1 x 1.4	7.50	$109.95	$104.95	$99.95
2128585	PM-65S	65	3.65	4.04	36	32.8 x 21.2 x 1.4	18.96	239.95	229.95	219.95

Solar Hydrogen Education Kit

Create a mini power system that can store solar energy in the form of hydrogen, and drive a small motor or fan using the fuel cell. Just add water and sunshine!

Includes: Electric motor, propeller blade, water storage tank, reversible PEM fuel cell, solar panel, wire set

Horizon

Part No.	Mfr. Part No.	Price
2112170	FCJJ-16...	$85.95

PARALLAX 1-Watt Solar Panel

- 9VDC max output
- 1W max power output
- 11V open-circuit voltage
- 0.11A Ipm max operating current
- 0.24A Isc short-circuit current
- Pre-soldered color-coded leads
- Can be expanded for more voltage/current
- Dimensions: 5.3"L x 5.3"W x 0.1"H

Part No.	Mfr. Part No.	1	5
2115291	750-00031	$12.95	$10.95

Monocrystal Sealed Solar Panel

- Equivalent to Panasonic BP-37334
- 12 cells
- Power: 98mW ±10%
- Rated voltage: 5.8V to 6.9V
- Rated current: 15mA
- Open circuit voltage: 7.2V
- Short circuit curr.: 17mA to 20mA
- 4 solder contacts on the back
- Size: 1.46"L x 1.28"W x 0.1" Thick

Web Code: AEK

Part No.	Mfr. Part No.	1	5	25
2162572	RU6715	$7.95	$6.95	$5.95

PowerFilm. Foldable Solar Chargers

Web Code: FSC

Ultra Compact, Ultra Lightweight, Easy-to-Use

PowerFilm develops and manufactures thin, flexible solar panels based on a proprietary low cost, high quality production process. The products encompass the consumer part of today's solar market and are used for recharging consumer electronics such as laptops, cell phones, GPS and mp3 players.

2108621: Charges 2 AA batteries (folds up compactly to fit into pocket)

2097133: Charges 2 AA rechargeable batteries and most small USB devices (folds up compactly to fit into pocket)

Fits in Your Pocket

2097133

Part No.	Mfr. Part No.	Description	Operating Volt. @ Curr.	Charging Volt.	Folded/Unfolded Dimensions (in.)	1	5
2108621	AA Charger	Solar, foldable charger	3.6V @ 0.6A	—	5.5 x 3.3 x 1.4 / 5.5 x 31.5	$79.95	$74.95
2097133	USB + AA Charger	USB + AA charger	3.6V @ 0.4A	5V	3.25 x 5.5 x 1.38 / 24 x 5.5	69.95	64.95

PowerFilm. Flexible Thin Film Solar Modules

Web Code: AEK

228099

Wireless Electronics Series The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin and durable.

Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T) Inches	Size (L x W x T) mm	Pricing 1	Pricing 5	Pricing 25
227985	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	$3.95	$3.49	$3.15
227993	TX3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	3.95	3.49	3.15
171061	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.95	5.35	4.79
228030	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.95	5.35	4.79
228056	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	15.95	14.95	13.95
228064	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	12.95	10.95	9.95
228072	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	19.95	17.95	15.95
228099	MP7.2-150	7.2	200	10 x 5.9 x .02	253 x 150 x 0.6	34.95	31.49	28.95
228101	MPT15-75	15.4	50	10 x 3.0 x .02	253 x 75 x 0.6	19.95	17.95	15.95
228110	MPT15-150	15.4	100	10 x 5.9 x .02	253 x 150 x 0.6	39.95	35.95	31.95

WeatherPro Series

228161

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection and tin-coated copper leads that extend from the module.

Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T) Inches	Size (L x W x T) mm	Pricing 1	Pricing 5	Pricing 25
228161	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	$29.95	$26.95	$24.95
228195	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	44.95	42.95	39.95
228208	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	79.95	74.95	69.95

JAMECO ValuePro 60mm Solar Panel

Web Code: AEK

Photovoltaic Mini Module

- Clear coat plastic
- Power output: 0.25W max.
- Voltage output: 4.7VDC to 5VDC
- Size: 2.36"L x 2.36"W x 0.1"Thick
- Material: copper indium diselenide

Part No.	Description	1	5	25
1928142	Solar panel	$7.95	$6.95	$6.25

Mini-Panel Solar Cells

Web Code: AEK

Ready to Use! No Soldering

Mini-panels are secured in a plastic body with a prismatic cover to help capture all available light. 6" red/black wires attached.

200221

2113666: Solar Cell Grab Bag
- Contains fragile cells of various sizes w/ 0.5V output
- No leads attached and requires soldering

2113666

Part No.	Mfr. P/N	VDC @ mA	Size (L" x W")	1	5
2136913	SOL1	0.5 @ 400	2.8 x 1.8 ..	$6.49	$5.95
2136921	SOL3	1.0 @ 200	3.0 x 1.8	5.95	5.49
2210079	FAD-1	1.2 @ 75	1.2 x 0.7	3.95	3.55
200221	SOL4	2.0 @ 200	3.0 x 3.7 ..	10.95	9.95
215319	4-3.0-100	3.0 @ 100	3.8 x 2.5 ..	12.95	11.95
2140373	750-00030	6.0 @ 167	4.9 x 2.5 ..	12.95	11.95
215327	4-6.0-50	6.0 @ 50	3.8 x 2.5 ..	14.95	13.49
2113666	SC-GRAB	Solar cell grab bag		9.95	8.95
		(min. 40pcs/bag, sizes vary)			

Edu & Hobby

ALL YOUR WIRE AND CABLE NEEDS — Pages 43-45

- Speaker wire   • Multi-conductor   • Hook-up wire   •CAT5   • 25' – 1000' spools

Ordering Information

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International Orders
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In-Person: Visit Jameco at
1355 Shoreway Road
Belmont, CA. 94002.
Will-call office hours are
8 a.m. – 5 p.m. Monday–Friday.

CONTACT INFORMATION

The following services are available at 1-650-592-8097 Monday through Friday 6 a.m. – 5 p.m. PST or via e-mail:
• International Sales (International@Jameco.com)
• Customer Service (Custservice@Jameco.com)
• Credit Department (Credit@Jameco.com)
• Technical Support (Tech@Jameco.com)
(Monday – Friday, 8 a.m. – 5 p.m. PST)

Toll-Free Hotline!
Please call us at 1-800-831-4242.

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Confirming Orders
Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

Minimum Order
A $5 processing fee will be added to telephone orders below $25 and Web orders less than $10.

Order-Cancellation & Rescheduling
All cancellations and rescheduling are subject to the final approval of Jameco Electronics. Visit us at www.Jameco.com/canceling-rescheduling.

SERVICES

30-Day Money Back Guarantee
If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error and parts that are returned over 30 days are subject to a restocking fee. Call our customer service department at 1-800-536-4316 or visit www.Jameco.com to request an RMA#. It should appear clearly on the outside of the box. Returns without an RMA# will not be accepted and no freight collect packages will be accepted. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

Jameco Warranty
Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days (One year for Jameco ValuePro, ReliaPro & BenchPro products) from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

No Other Warranties
The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to: implied conditions or warranties of merchantability, fitness for a particular purpose and non-infringement of the products.

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In the unlikely event that you find a lower published price for products that are in stock from one of our competitors, simply call us and we'll beat that price by 10% all the way down to our cost. Prices and discounts are subject to change without notice. Jameco is pleased to occasionally offer promotional discounts to our customers, but these are to be applied to published pricing for stocked products and may not be combined with other discounts nor can they be applied to special or scheduled orders. Occasionally we make a typographical error and unfortunately we cannot honor erroneous prices. Photos in the catalog are representative but many products may vary in appearance.

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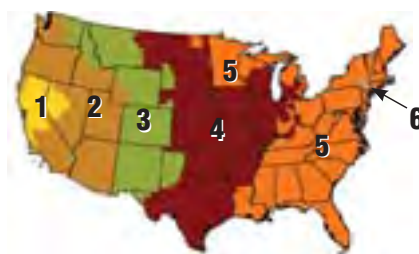
Guaranteed Delivery Time for UPS Ground (Business Days)
① day ② ③ ④ ⑤ ⑥ days

Orders placed on business days by 6 p.m. Eastern time for products in stock will ship the same day. Orders placed on weekends and holidays will ship the following business day. All orders ship FOB California. Additional shipping time may be required for orders requiring credit approval or for products not in stock.

Shipping Options
Jameco offers shipping options from FedEx, UPS and the United States Post Office.

UPS/FedEx Ground Shipping
UPS/FedEx 3-Day Shipping
UPS/FedEx 2-Day Shipping
UPS/FedEx Overnight PM
UPS/FedEx Overnight AM
USPS Delivery

Jameco offers its business customers the option to charge the customer's shipping account. Jameco offers private carrier LTL shipments on orders typically in excess of 50 pounds. Call Jameco for more information. For more shipping information, visit www.Jameco.com/shippingrates.

Tracking Your Order
Jameco will email tracking information upon shipment or you can track your account by visiting www.Jameco.com and clicking the Track Orders link in the top right side of the page.

International Orders
You'll be presented with shipping options during the check out process. Ground shipping to Canada will include brokerage fees that are billed separately. Customers that would like to ship via a specific carrier or using an existing account number should note these requirements online in the comments box upon checkout. All returns require an RMA and pre-paid shipping back to Jameco.

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Hydro-Wind Education Kit

- Build your own hydrogen-powered projects
- Includes complete CD-based curriculum on renewable energy
- Measure RPM, measure efficiencies, tune for max power and more!

Part No.	Mfr. Part No.	Price
2112153	FCJJ-26	$99.95

Recorders & Modules

Get started with PICAXE microcoltrollers
2171284: Record/convert/store music
2171330/2171364: Controls the state of 3 color LEDs and a light bulb

2171284

Part No.	Description	Price
2171284	Digital recorder, 12V, 350mA, 5W	$31.95
2171276	Message recorder/player, 20 sec.	9.95
2171330	LED module w/ PICAXE 08M	29.95
2171364	Light bulb module w/ PICAXE08M	19.95

Arduino Xbee/ZigBee Shield

- Includes XBee Series 2 OEM RF module with on-board chip antenna
- Transmit power: 2mW
- RF data rate: 250 kbps
- Used as serial/USB replacement

Part No.	Mfr. Part No.	Price
2163751	A000007	$45.95

16-Button Keypad

- Gold-plated PCB contacts
- Tactile feedback
- Customizable graphics and colors
- Contact rating: 30mA @ 12VDC
- Contact resis.: <200Ω • Size: 4.6"L x 1.7"W x 0.4"D

Part No.	Product No.	1	10
196171	07-30009-000	$14.95	$13.49

6 & 10-Foot SJT AC Power Cords

- UL/CSA approved
- Detachable
2126053: With RFI filter

2126053

Part No.	Product No.	Wire Gauge	1	10
2126053	LL76932	16 AWG	$3.95	$2.95
2172981	LL81924	14 AWG	8.95	7.95

GPS Trackers

2185301: Small, pocket-sized, precise location within 2.5m
2185272: Web based with on-board diagnostics, 3D/2D realtime mapping views

2185301

Part No.	Mfr. Part No.	Price
2185301	1507	$119.95
2185272	3000	149.95

RFID Experimental Training Laboratory

- 16-character x 2-line LCD monitor
- Keypad for entering instructions, exiting command
- Sensor for door control
- Built-in Real Time Clock
- Two individual relays with connectors for open and closed operation
- Glass breaking detector module

Part No.	Mfr. Part No.	Price
2128104	LP-2010	$599.95

Ultra Slim Dual Port AC Wall and USB Charger

- 2 USB charging ports: 5V, 1A each (2.1A total)
- (2) 3-prong AC outlets
- Hidden swivel AC plug
- ETL FCC approved
- Rating: 120VAC @ 15A, 60Hz, 1800W
- Dimensions: 6.7"L x 3.0"W x 0.75"D

Part No.	Mfr. Part No.	Price
2207654	BL-920-320	$19.95

Cermet Potentiometers

769338   1157940/854399   264647   2195497

Part No.	Manufacturer	Mfr. Part No.	1	10
769338	Vishay	3296P	$1.25	$1.09
1157940	Bourns	3329H	1.19	.99
854399	Bourns	3329H	1.19	.99
2198954	Bi Technologies	3386C	.69	.59
264647	ValuePro	3386X	.99	.89
2195497	Bi Technologies	84XR200TR	.69	.59

SONY Full Function CCD Color Camera

- Lens: focal length: 1:1.4, aperature: F:6-15mm
- Horizontal resolution: 420 lines
- Video output: 1Vp-p, 75Ω
- Vertical freq.: 50Hz • Audio output: 2Vp-p max

Part No.	Mfr. Part No.	Price
2189530	15CC26NV + 15-L0615M	$79.95

ADAM TECH Modular Jack

- 10 positions, 10 contacts
- Side entry, center latch
- Contact: phosphor bronze
- Shield: phosphor bronze, nickel plated • No panel stops
- Size: 0.74" x 0.63" x 0.47"

Part No.	Mfr. Part No.	1	10	100	500
2178241	MTJ-10102BX1-FS	$.29	$.27	$.25	$.22

Low Profile PCB Relay

- Rating: 10A @ 240VAC, 8A @ 24VDC
- 4KV/8mm coil contact
- Coil power: 221mW

Part No.	Mfr. Part No.	1	10
1937612	T75S5D112-12	$1.75	$1.49

Stepper, Gear Head & DC Motors

2158531   2197476   2210845

Part No.	Description	1	5
2158531	Stepper motor 12V, 1.7A	$9.95	$8.95
2197476	Gear head, 12V, 327mA, 5214 RPM	13.95	12.49
2158434	DC motor, 6V, 450mA, 4787 RPM	2.25	1.95
2210845	DC motor, 12V, 13.52A, 12610 RPM	7.95	6.95
2192421	DC motor, 24V, 1.05A, 9346 RPM	4.95	4.49

700W Lead-Free SMD Rework Station

- Heater/sensor failure detection
- Teamperature "Lock-out" feature
- Temperature adjustable

Includes: AC power cord, 5 piece tweezer hand tools, 4 piece nozzle set, iron holders, IC popper, hot air gun holder

Part No.	Mfr. Part No.	1	5
2144577	LF-855D	$299.95	$279.95

Wall Adaptors & Table-Top Power Supplies

2210888   2197468   2154986   2172789

Part No.	Mfr. Part No.	Voltage @ Current	Size (L" x W" x H")	1	10
2126125	ADS0051-W050080	5V @ 0.8A	0.1 x 1.6 x 1.9	$6.95	$5.95
2210888	1128[1]	5V @ 1A; 5V @ 2.5A	2.6 x 1.3 x 1.5	7.95	7.19
221720	P25A14E-R1BU	0.5V, -15V @ 0.3A	4.3 x 2.6 x 1.4	26.95	24.95
2138951	PSA11R-120	12V @ 0.83A	3.4 x 2.1 x 1.4	9.95	8.95
2197468	S120S100B6	12V @ 1A	2.9 x 1.8 x 1.2	8.95	7.95
2154986	FW75550/12[2]	12V @ 1.25A	3.4 x 2.0 x 1.3	15.95	14.95
2129609	PSA65U-120[3]	12V @ 5A	5.9 x 2.8 x 1.5	14.95	13.49
2078320	GS90A15-P1M	15V @ 6A	5.7 x 2.3 x 1.3	24.95	22.95
2172789	EA1030D1[4]	24V @ 1.25A	4.9 x 2.0 x 1.2	12.95	11.95

[1] Mini USB w/ interchangeable tips   [2] AC interchangeable tips   [3] No LED indicator   [4] AC power cord included

Mean Well AC-to-DC Switching Power Supplies

Reliable enclosed and open-frame switching power supplies for a variety of applications requiring voltage outputs from 5V up to 27V.

231669   693388   2149511   236882

| Part No.	Mfr. Part No.	Power (W)	Volt. @ Curr.	Size (L" x W" x H")	1	10
231669	PSP-1500-5	1087.5	5V @ 217.5A	10.9 x 5.1 x 7.5	$99.95	—
693388	SP-75-7.5	75	7.5V @ 10A	7.0 x 3.8 x 1.3	32.95	29.95
2205413	ASM60-1380	60	12V @ 5A	4.0 x 2.0 x 1.7	9.95	8.95
2149511	SE-350-15	350	15V @ 23.2A	8.5 x 4.5 x 2.0	43.95	39.95
236882	LPP-100-27	102.6	27V @ 3.8A	8.7 x 2.4 x 1.3	14.95	—
693513	SP-150-27	151.2	27V @ 5.6A	7.8 x 3.9 x 2.0	42.95	38.95

Gear Head and DC Motors

NEW MARKED IN PINK

Here are some of our best selling DC motors. Apply these to your robots or other applications today!

Part No	Mfr.	Mfr. Part No.	Rated Voltage (V)	@ Max. Efficiency			Motor Size (Dia." x Depth")	Pricing	
				Speed (RPM)	Current (mA)	Torque (g-cm)		1	10
2209043	Jinlong	Z4SL2A0000009	1.3	21000	50	0.3	0.16 x 0.4	$2.25	$1.95
2209182	Mabuchi	RF-370CA-22170	6	4600	620	40	0.76 x 1.21	3.49	2.95
2192878	Nichibo	RK-520-17310-R*	12	104	423	1749	1.3 x 0.9	15.95	13.95
2209203	Nichibo	MD5BN-12200	12	3203	201	36.05	1.09 x 1.29	4.95	4.49
2197476	Nichibo	MD3B-14280-R*	12	5214	327	42.89	1.1 x 1.3	13.95	12.49
2217801	Nichibo	MS5BN-1980-R*	18	15432	1050	78.9	1.06 x 1.27	3.95	3.49

*Gear head motor

2209182 **2192878** **2209203**
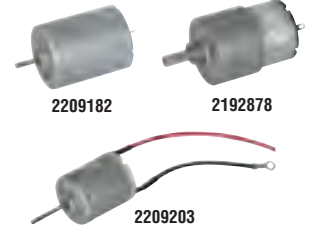
AC/DC Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING. We are happy to change any listed AC wall adapter power plug to a connector of your choice (see pg 99) for just $2.50 each. Overmolding also available @ $4.00 each. A 100 pc. minimum order applies.

Whether you need AC-to-DC or AC-to-AC wall adapters, we have what you need to power your devices. Keep the lights on with these low prices!

NEW MARKED IN PINK

AC-to-DC Switching

Part No.	Mfr.	Mfr. Part No.	Output Voltage	Output Current	Output Connector	Size (H" x W" x D")	Cord Length	Pricing		
								1	10	50
2211098	Phihong	PLA05A-050-R	5	1A	2.1mm x 5.5mm F	3.1 x 1.3 x 1.6	6 feet	$10.95	$9.95	$8.95
2188537	CUI	EPAS-101W-05	5	2A	2.5mm x 5.5mm F*	2.4 x 1.7 x 1.0	6 feet	8.95	7.95	6.95
2215734	ReliaPro	MT12-Y120100-A1	12	1A	2.1mm x 5.5mm F	2.7 x 1.5 x 1.3	6 feet	8.95	7.95	6.95
2209166	ReliaPro	G1P-650	12	2A	2.5mm x 5.5mm F	3.1 x 2.1 x 1.3	6 feet	11.95	10.49	8.95
2215726	ReliaPro	PO3WF-120B	12	2.5A	2.1mm x 5.5mm F	3.0 x 1.4 x 2.0	6 feet	13.95	12.95	11.49

2215734 **2215726**

AC-to-AC Switching • Input: 120VAC @ 60Hz

Part No.	Mfr.	Mfr. Part No.	Output Voltage	Output Current	Output Connector	Size (H" x W" x D")	Cord Length	Pricing		
								1	10	50
2202773	Bogen	PI-41-43A	9	0.78A	2.1mm x 5.5mm F*	2.5 x 2.0 x 1.5	6 feet	$8.95	$7.95	$6.95
2197581	ReliaPro	GPU481202000WAOO	12	2A	2.1mm x 5.5mm F	3.3 x 2.6 x 2.2	6 feet	14.95	13.49	11.95
2217748	ReliaPro	ZMCE-014	18	0.3A	Stripped & tinned	2.3 x 1.6 x 1.4	6 feet	6.95	5.95	4.95
2217721	ReliaPro	ZMCE-022	24	1A	2.5mm x 5.5mm F	3.2 x 2.2 x 1.9	6 feet	9.95	8.95	7.95

*Right angle

2217748 **2217721**
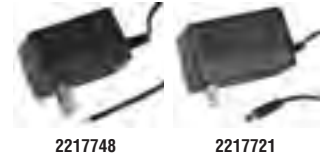
Microprocessors, Digital Potentiometer and Starter Kit

Microchip offers solutions for the entire performance range of 8 to 32-bit microcontrollers with comprehensive easy to use development tools, powerful architecture, and flexible memory technologies. Learn how to develop and debug these PIC microcontrollers with the Starter Kit.

PDIP-40 **PDIP-8** **697338**
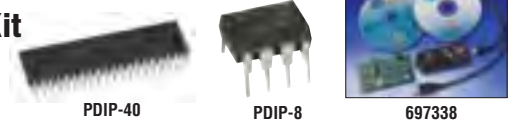
Part No.	Mfr. Part No.	Pkg.	Description	1	10
697338	DV164120	Kit	Microcontroller Programmer and Debugger Starter kit includes USB cable, CDs with software and tech specs, demo board	$79.95	$74.95
241752	MCP42010-I/P	PDIP-14	Digital potentiometer, 10kΩ, 256 postions, SPI serial interface with two channels, allows daisy-chaining of multiple devices	1.95	1.75
223781	PIC12F675-I/P	PDIP-8	8-bit MCU with 1.75kB ISP flash, 64x8-bit internal RAM, 6 programmable I/Os, max. clock rate and speed of 20MHz, 2 timers	.99	.95
145111	PIC16F84A-04/P	PDIP-18	8-bit MCU with 1.75kB ISP flash, 68x8-bit internal RAM, 13 programmable I/Os, max. clock rate and speed of 4MHz, 1 timer	3.55	3.45
247038	PIC16F877A-I/P	PDIP-40	8-bit MCU with 14.3kB ISP flash, 368x8-bit internal RAM, 33 programmable I/Os, max. clock rate and speed of 20MHz, 3 timers	4.85	4.69
248031	PIC18F452-I/P	PDIP-40	8-bit MCU with 32kB ISP flash, 1500x8-bit internal RAM, 34 programmable I/Os, max. clock rate and speed of 40MHz, 4 timers	5.95	5.75
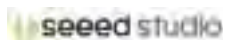
Handheld Oscilloscopes, Switches, Arduino Shields and Accessories

NEW MARKED IN PINK

Seeed is a hardware innovation platform that allows makers to "grow" their visions into unique products. Choose from their exclusive offering of components when designing and building your next great invention.

2217393 **2217561** **2217529** **2217588** **2217609** **2217414**

Part No.	Mfr. Part No.	Description	Price
2217393	TOL01241P	DSO nano v3. pocket-size 32-bit digital oscilloscope. 2.8" 320x240 color display, 0-200kHz, 1Msps/12-bit. PC connection and recharge via USB	$89.95
2217406	TES725AAB	DSO quad. pocket-size 4-CH digital oscilloscope. 2.8" 320x240 color display, 2x72MS/s analog, 2 digital. Includes .2 mueller MCx probe & 2 digital probe	199.95
2217553	TEM12123B	16mm carbon black metal anti-vandal momentary SPST panel mount pushbutton switch. IP67, sturdy screw terminals. 3A @ 250VAC	3.95
2217561	TEM12125B	16mm crimson red metal anti-vandal momentary SPST panel mount pushbutton switch. IP67, sturdy screw terminals. 3A @ 250VAC	3.95
2217570	TEM12127B	16mm carbon royal blue anti-vandal momentary SPST panel mount pushbutton switch. IP67, sturdy screw terminals. 3A @ 250VAC	3.95
2217529	800165001	16mm metal momentary SPST panel mount switch. 0.7" round, 10mm flat round button with green illuminated ring. 3A @ 250VAC	6.49
2217537	800164001	16mm metal momentary SPST panel mount switch. 0.7" face, 10mm flat round button with red illuminated ring. 3A @ 250VAC	6.49
2217588	TEM12121B	6 pack of 12mm domed momentary pushbutton switches. Red, yellow, green, blue, black and white. IP67. 400mA/32VAC, 125mA/125VAC, 100mA/50VDC	3.95
2217609	COM62229M	12 button (3x4) sealed membrane button pad with adhesive back. 3.5" flat cable with 7-pin female connector. 2.4" x 3"	3.95
2217414	KI101E1P	Rainbow Cube kit, 4x4x4 RGB LED cube. Requires Rainbowduino LED driver platform P/N 2217422 sold separately	49.95

★*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box*

3 LEVELS OF SAVINGS
NAME BRANDS HOUSE BRANDS SPECIAL BUY

Great Products, Awesome Prices, Reach for Jameco First!

Medical AC-to-DC Table-Top Power Supplies

★ Web Code: WBM

NEW MARKED IN PINK

These table-top power supplies are very reliable, accurate and approved to satisfy the demands of various kinds of medical electrical devices.
- Medical standard: 2XMDPP
- Universal AC input/full range • Three-year warranty
- Protection: short circuit/overload/over voltage

2196318   2213915

Part No.	Mfr. Part No.	Output Voltage @ Current	Power	Load Regulation	Line Regulation	Efficiency	Pricing 1	10
2196318	GSM06U05-P1J	5V @ 1.2A	6W	±0.5%	±5%	68%	$9.95	$8.95
2213915	GSM18B12-P1J	12V @ 1.5A	18W	±3.0%	±1%	85%	12.95	11.49
2214070	GSM36B12-P1J	12V @ 3A	36W	±3.0%	±1%	86%	14.49	12.95
2214230	GSM60B12-P1J	12V @ 5A	60W	±3.0%	±1%	88%	21.95	19.95
2210466	GSM90B12-P1M	12V @ 6.67A	80.04W	±5.0%	±1%	88%	31.95	28.95
2214029	GSM25B24-P1J	24V @ 1.04A	25W	±2.0%	±1%	87%	13.49	11.95
2214184	GSM40B24-P1J	24V @ 1.67A	40W	±2.5%	±1%	90%	18.95	17.49
2214310	GSM120B24-R7B	24V @ 5A	120W	±3.0%	±1%	90%	49.95	44.95

Industrial AC-to-DC Switching Power Supplies

NEW MARKED IN PINK

This high efficiency power supplies have a state of the art design that can withstand harsh environmental conditions being fully potted by silicone and enclosed with an aluminum case. If reliability and durability are your concerns, this power supply will more than suit your needs.
- Built-in active PFC function • Protections: short circuit/overload/over voltage
- Fanless design, cooling by free air convection • LED indicator for power on • Five-year warranty
- Output voltage and output current can be adjusted with internal potentiometer • Size: 11"L x 5.6"W x 1.9"H

★ Web Code: EPS

Part No.	Mfr. Part No.	Output Voltage @ Current	Power	Load Regulation	Line Regulation	Efficiency	Pricing 1	10
2218741	HEP-600-12	12V @ 40A	480W	±2.0%	±0.5%	93%	$210.95	$189.95
2218775	HEP-600-24	24V @ 25A	600W	±0.5%	±0.5%	95%	210.95	189.95
2218812	HEP-600-48	48V @ 12.5A	600W	±0.5%	±0.5%	96%	210.95	189.95

AC-to-DC LED Switching Power Supplies

★ Web Code: LPP

NEW MARKED IN PINK

These waterproof and energy efficient power supplies are exactly what you need for all kinds of outdoor or indoor LED lighting applications.
- Universal AC Input/full range • IP67 rated protection level • Cooled by free air convection
- Built-in active PFC function • Protections: Short circuit/overload/over voltage/over temperature

Part No.	Mfr. Part No.	Output Voltage @ Current	Power	Load Regulation	Line Regulation	Efficiency	Pricing 1	10
2164121	APV-35-12★	12V @ 3A	36W	±2.0%	±1.0%	83.0%	$11.95	$10.96
2218329	HLG-600H-12B	12V @ 40A	480W	±2.0%	±0.5%	92.0%	194.95	169.95
2165861	LPF-25D-24	24V @ 1.05A	25W	±0.5%	±0.5%	85.5%	25.95	23.49
2215030	NPF-90-24	24V @ 3.75A	90W	±0.5%	±0.5%	91.0%	38.95	35.95
2215128	PWM-90-48	48V @ 1.88A	90W	±0.5%	±0.5%	90.5%	47.95	43.95
2215216	OWA-90U-54	54V @ 1.67A	90.24W	±0.5%	±0.5%	91.0%	43.95	38.95

★Does not have active PFC or IP67 level

2165861
2215128
2218329

CONTACT INFORMATION

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